

| Product code   | Description                          |
|----------------|--------------------------------------|
| <b>SSKTGTR</b> | <b>Goldner's Trichrome Stain Kit</b> |

## Components:

|          |  |
|----------|--|
| SSFYBOU  | Bouin's Fluid                            |
| SSKC811  | Goldner's Trichrome Ponceau/Acid Fuchsin |
| SSAHP10  | Phosphomolybdic Acid - Orange G          |
| SSKC812  | Goldner's Trichrome Light Green Stain    |
| SSAHA03  | 1% Acetic Acid                           |
| SSHXWHEA | Weigert's A Hematoxylin                  |
| SSHXWHEB | Weigert's B Hematoxylin                  |



# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/29/2018

### 1 Identification of the Substance/Mixture and Company

**Product Name:** Bouin's Fluid

**SDS Code:** SSFXBOU

**Product Description:** Tissue Fixative

**Manufacturer/Supplier:**

American MasterTech  
1330 Thurman Street  
Lodi, CA 95240  
USA  
(800) 860-4073

**European Authorized Representative:**

Emergo Europe  
Prinsessegracht 20  
2514 AP The Hague,  
The Netherlands

**Emergency Telephone Number:** Infotrac (800) 535-5053 (24 hours) - International (011) 352-323-3500

### 2 Hazards Identification

**Classification of the substance or mixture**



GHS08 Health hazard

- Muta. 2      H341 Suspected of causing genetic defects.
- Carc. 1A     H350 May cause cancer.
- STOT SE 2   H371 May cause damage to organs.



GHS07

- Acute Tox. 4 H302 Harmful if swallowed.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2A H319 Causes serious eye irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Flam. Liq. 4 H227 Combustible liquid.

**Label elements**

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**



GHS07



GHS08

**Signal word** Danger

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/29/2018

---

**Product Name: Bouin's Fluid**

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**Hazard-determining components of labeling:**

formaldehyde  
methanol  
2,4,6-trinitrophenol

**Hazard statements**

Combustible liquid.  
Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
Suspected of causing genetic defects.  
May cause cancer.  
May cause damage to organs.

**Precautionary statements**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from flames and hot surfaces. – No smoking.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Call a poison center/doctor if you feel unwell.  
If on skin: Wash with plenty of water.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/attention.  
Specific treatment (see on this label).  
Rinse mouth.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Wash contaminated clothing before reuse.  
In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:****NFPA ratings (scale 0 - 4)**

Health = 3  
Fire = 2  
Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = 3  
Fire = 2  
Reactivity = 0

**Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/29/2018

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**Product Name: Bouin's Fluid**


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### 3 Composition

**Chemical characterization: Mixtures**
**Description:** Mixture of the substances listed below with nonhazardous additions.

| <b>Dangerous components:</b> |                      |            |
|------------------------------|----------------------|------------|
| 50-00-0                      | formaldehyde         | ≥5-≤10%    |
| 64-19-7                      | acetic acid          | 2.5-10%    |
| 67-56-1                      | methanol             | ≥3-≤10%    |
| 88-89-1                      | 2,4,6-trinitrophenol | ≥0.1-≤2.5% |

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### 4 First Aid Measures

**Description of first aid measures**
**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** Immediately call a doctor.

**Information for doctor:**
**Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed:**

 No further relevant information available.
 

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### 5 Firefighting Measures

**Extinguishing media**
**Suitable extinguishing agents:**

 CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture:** No further relevant information available.

**Advice for firefighters**
**Protective equipment:** No special measures required.
 

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### 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

 Ensure adequate ventilation.
 

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# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/29/2018

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**Product Name: Bouin's Fluid**


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**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**Protective Action Criteria for Chemicals**

| <b>PAC-1:</b> |                      |                       |
|---------------|----------------------|-----------------------|
| 50-00-0       | formaldehyde         | 0.90 ppm              |
| 64-19-7       | acetic acid          | 5 ppm                 |
| 67-56-1       | methanol             | 530 ppm               |
| 88-89-1       | 2,4,6-trinitrophenol | 0.3 mg/m <sup>3</sup> |
| <b>PAC-2:</b> |                      |                       |
| 50-00-0       | formaldehyde         | 14 ppm                |
| 64-19-7       | acetic acid          | 35 ppm                |
| 67-56-1       | methanol             | 2,100 ppm             |
| 88-89-1       | 2,4,6-trinitrophenol | 17 mg/m <sup>3</sup>  |
| <b>PAC-3:</b> |                      |                       |
| 50-00-0       | formaldehyde         | 56 ppm                |
| 64-19-7       | acetic acid          | 250 ppm               |
| 67-56-1       | methanol             | 7200* ppm             |
| 88-89-1       | 2,4,6-trinitrophenol | 100 mg/m <sup>3</sup> |

## 7 Handling and Storage

**Handling:****Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace.**Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** No special requirements.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** Keep receptacle tightly sealed.**Specific end use(s):** No further relevant information available.

## 8 Exposure Controls/Personal Protection

**Additional information about design of technical systems:** No further data; see item 7.**Control parameters****Components with limit values that require monitoring at the workplace:****50-00-0 formaldehyde**

|     |   |
|-----|---|
| PEL | Short-term value: 2 ppm<br>Long-term value: 0.75 ppm<br>see 29 CFR 1910.1048(c) |
|-----|---|

## SAFETY DATA SHEET

### In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/29/2018

**Product Name: Bouin's Fluid**

|  |   |
|--|---|
| REL  | Long-term value: 0.016 ppm<br>Ceiling limit value: 0.1* ppm<br>*15-min; See Pocket Guide App. A                       |
| TLV  | Short-term value: 0.37 mg/m <sup>3</sup> , 0.3 ppm<br>Long-term value: 0.12 mg/m <sup>3</sup> , 0.1 ppm<br>DSEN; RSEN |
| <b>64-19-7 acetic acid</b>                       |   |
| REL  | Long-term value: 25 mg/m <sup>3</sup> , 10 ppm  |
| REL  | Short-term value: 37 mg/m <sup>3</sup> , 15 ppm<br>Long-term value: 25 mg/m <sup>3</sup> , 10 ppm                     |
| TLV  | Short-term value: 37 mg/m <sup>3</sup> , 15 ppm<br>Long-term value: 25 mg/m <sup>3</sup> , 10 ppm                     |
| <b>67-56-1 methanol</b>                          |   |
| REL  | Long-term value: 260 mg/m <sup>3</sup> , 200 ppm  |
| REL  | Short-term value: 325 mg/m <sup>3</sup> , 250 ppm<br>Long-term value: 260 mg/m <sup>3</sup> , 200 ppm<br>Skin         |
| TLV  | Short-term value: 328 mg/m <sup>3</sup> , 250 ppm<br>Long-term value: 262 mg/m <sup>3</sup> , 200 ppm<br>Skin; BEI    |
| <b>88-89-1 2,4,6-trinitrophenol</b>              |   |
| REL  | Long-term value: 0.1 mg/m <sup>3</sup><br>Skin  |
| REL  | Short-term value: 0.3 mg/m <sup>3</sup><br>Long-term value: 0.1 mg/m <sup>3</sup><br>Skin                             |
| TLV  | Long-term value: 0.1 mg/m <sup>3</sup>  |
| <b>Ingredients with biological limit values:</b> |   |
| <b>67-56-1 methanol</b>                          |   |
| BEI  | 15 mg/L<br>Medium: urine<br>Time: end of shift<br>Parameter: Methanol (background, nonspecific)                       |

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls:****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.

**Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:**

Protective gloves

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/29/2018

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**Product Name: Bouin's Fluid**


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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles

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## 9 Physical and Chemical Properties

| Information on basic physical and chemical properties |  |
|---|--|
| <b>General Information</b>                            |  |
| <b>Appearance</b>                                     |  |
| <b>Form:</b>  | Liquid   |
| <b>Color:</b>   | Yellow   |
| <b>Odor:</b>  | Pungent, makes eyes water                          |
| <b>Odor threshold:</b>                                | Not determined.                                    |
| <b>pH-value:</b>                                      | Not determined.                                    |
| <b>Change in condition</b>                            |  |
| <b>Melting point/Melting range:</b>                   | Undetermined.                                      |
| <b>Boiling point/Boiling range:</b>                   | Undetermined.                                      |
| <b>Flash point:</b>                                   | 66 °C (150.8 °F)                                   |
| <b>Flammability (solid, gaseous):</b>                 | Not applicable.                                    |
| <b>Ignition temperature:</b>                          | ~300 °C (~572 °F)                                  |
| <b>Decomposition temperature:</b>                     | Not determined.                                    |
| <b>Auto igniting:</b>                                 | Product is not selfigniting.                       |
| <b>Danger of explosion:</b>                           | Forms very sensitive explosive metallic compounds. |
| <b>Explosion limits:</b>                              |  |
| <b>Lower:</b>   | Not determined.                                    |
| <b>Upper:</b>   | Not determined.                                    |
| <b>Vapor pressure at 20 °C (68 °F):</b>               | 23 hPa (17.3 mm Hg)                                |
| <b>Density at 20 °C (68 °F):</b>                      | 0.98489 g/cm <sup>3</sup> (8.21891 lbs/gal)        |
| <b>Relative density:</b>                              | Not determined.                                    |
| <b>Vapour density:</b>                                | Not determined.                                    |
| <b>Evaporation rate:</b>                              | Not determined.                                    |
| <b>Solubility in / Miscibility with</b>               |  |
| <b>Water:</b>   | Fully miscible.                                    |
| <b>Partition coefficient (n-octanol/water):</b>       | Not determined.                                    |
| <b>Dynamic:</b>                                       | Not determined.                                    |
| <b>Kinematic:</b>                                     | Not determined.                                    |

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/29/2018

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**Product Name: Bouin's Fluid**


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|                           |  |
|---------------------------|--|
| <b>Other information:</b> | No further relevant information available. |
|---------------------------|--|

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### 10 Stability and Reactivity

**Reactivity:** No further relevant information available.

**Chemical stability:**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

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### 11 Toxicology Information

**Information on toxicological effects**

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

**50-00-0 formaldehyde**

|      |      |                  |
|------|------|------------------|
| Oral | LD50 | >200 mg/kg (rat) |
|------|------|------------------|

**67-56-1 methanol**

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 5,628 mg/kg (rat)     |
| Dermal | LD50 | 15,800 mg/kg (rabbit) |

**Primary irritant effect:**

**On the skin:** Irritant to skin and mucous membranes.

**On the eye:** Irritating effect.

**Sensitization:** Sensitization possible through skin contact.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

**Carcinogenic categories**

**IARC (International Agency for Research on Cancer)**

|         |              |   |
|---------|--------------|---|
| 50-00-0 | formaldehyde | 1 |
|---------|--------------|---|

**NTP (National Toxicology Program)**

|         |              |   |
|---------|--------------|---|
| 50-00-0 | formaldehyde | K |
|---------|--------------|---|

**OSHA-Ca (Occupational Safety & Health Administration)**

|         |              |
|---------|--------------|
| 50-00-0 | formaldehyde |
|---------|--------------|

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### 12 Ecological Information

**Toxicity:**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Behavior in environmental systems:**

**Bioaccumulative potential:** No further relevant information available.

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# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/29/2018

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**Product Name: Bouin's Fluid**


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**Mobility in soil:** No further relevant information available.

**Additional ecological information:**

**General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:** No further relevant information available.

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### 13 Disposal Considerations

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

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### 14 Transport Information

|   |                 |
|---|-----------------|
| <b>UN-Number</b><br>DOT, ADR, ADN, IMDG, IATA                                   | Not applicable  |
| <b>UN proper shipping name</b><br>DOT, ADR, ADN, IMDG, IATA                     | Not applicable  |
| <b>Transport hazard class(es)</b><br>DOT, ADR, ADN, IMDG, IATA<br>Class         | Not applicable  |
| <b>Packing group</b><br>DOT, ADR, IMDG, IATA                                    | Not applicable  |
| <b>Environmental hazards</b><br><b>Marine pollutant:</b>                        | No              |
| <b>Special precautions for user:</b>  | Not applicable. |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | Not applicable. |
| <b>UN "Model Regulation":</b>   | Not applicable  |

---

### 15 Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA

**Section 355 (extremely hazardous substances):**

|         |              |
|---------|--------------|
| 50-00-0 | formaldehyde |
|---------|--------------|

**Section 313 (Specific toxic chemical listings):**

|         |              |
|---------|--------------|
| 50-00-0 | formaldehyde |
|---------|--------------|

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# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/29/2018

**Product Name: Bouin's Fluid**

|         |                      |
|---------|----------------------|
| 67-56-1 | methanol             |
| 88-89-1 | 2,4,6-trinitrophenol |

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**TSCA new (21st Century Act) (Substances not listed)**

88-89-1 | 2,4,6-trinitrophenol

**Proposition 65****Chemicals known to cause cancer:**

50-00-0 | formaldehyde

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

67-56-1 | methanol

**Carcinogenic categories****EPA (Environmental Protection Agency)**

50-00-0 | formaldehyde

B1

**TLV (Threshold Limit Value established by ACGIH)**

50-00-0 | formaldehyde

A2

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

50-00-0 | formaldehyde

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).**Hazard pictograms**

GHS07

GHS08

**Signal word** Danger**Hazard-determining components of labeling:**

formaldehyde

methanol

2,4,6-trinitrophenol

**Hazard statements**

Combustible liquid.

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May cause cancer.

May cause damage to organs.

**Precautionary statements**

Obtain special instructions before use.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/29/2018

---

**Product Name: Bouin's Fluid**


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Do not handle until all safety precautions have been read and understood.  
 Keep away from flames and hot surfaces. – No smoking.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If swallowed: Call a poison center/doctor if you feel unwell.  
 If on skin: Wash with plenty of water.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF exposed or concerned: Get medical advice/attention.  
 Specific treatment (see on this label).  
 Rinse mouth.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 Take off contaminated clothing and wash it before reuse.  
 Wash contaminated clothing before reuse.  
 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
 Store in a well-ventilated place. Keep cool.  
 Store locked up.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

**National regulations:****Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

**Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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## 16 Other Information

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

**Department issuing SDS:** Regulatory Department

**Contact:** Phone (800) 860-4073

**Date of preparation / last revision** 02/14/2018 / -

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/29/2018

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**Product Name: Bouin's Fluid**

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NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
BEL: Biological Exposure Limit  
Flam. Liq. 4: Flammable liquids – Category 4  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Skin Sens. 1: Skin sensitisation – Category 1  
Muta. 2: Germ cell mutagenicity – Category 2  
Carc. 1A: Carcinogenicity – Category 1A  
STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

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## SAFETY DATA SHEET In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/08/2018

### 1 Identification of the Substance/Mixture and Company

**Product Name:** Goldner's Trichrome Ponceau/Acid Fuchsin

**SDS Code:** SSKC811

**Product Description:** Histology Stain

**Manufacturer/Supplier:**

American MasterTech  
1330 Thurman Street  
Lodi, CA 95240  
USA  
(800) 860-4073

**European Authorized Representative:**

Emergo Europe  
Prinsessegracht 20  
2514 AP The Hague,  
The Netherlands

**Emergency Telephone Number:** Infotrac (800) 535-5053 (24 hours) - International (011) 352-323-3500

### 2 Hazards Identification

**Classification of the substance or mixture**

The product is not classified according to the Globally Harmonized System (GHS).

**Label elements**

**GHS label elements** Not applicable

**Hazard pictograms** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

**Classification system:**

**NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 3 Composition

**Chemical characterization: Mixtures**

**Description:** Mixture of the substances listed below with nonhazardous additions.

**Dangerous components:** Not applicable

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/08/2018

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**Product Name: Goldner's Trichrome Ponceau/Acid Fuchsin**


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### 4 First Aid Measures

**Description of first aid measures**
**General information:** No special measures required.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** If symptoms persist consult doctor.

**Information for doctor:**
**Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed:**

 No further relevant information available.
 

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### 5 Firefighting Measures

**Extinguishing media**
**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Special hazards arising from the substance or mixture:** No further relevant information available.

**Advice for firefighters**
**Protective equipment:** No special measures required.
 

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### 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Not required.

**Environmental precautions:** Dilute with plenty of water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**Protective Action Criteria for Chemicals**

|               |             |         |
|---------------|-------------|---------|
| <b>PAC-1:</b> |             |         |
| 64-19-7       | acetic acid | 5 ppm   |
| <b>PAC-2:</b> |             |         |
| 64-19-7       | acetic acid | 35 ppm  |
| <b>PAC-3:</b> |             |         |
| 64-19-7       | acetic acid | 250 ppm |

---

### 7 Handling and Storage

**Handling:**
**Precautions for safe handling:** No special measures required.

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities**
**Storage:**
**Requirements to be met by storerooms and receptacles:** No special requirements.
 

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# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/08/2018

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**Product Name: Goldner's Trichrome Ponceau/Acid Fuchsin**


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**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None.

**Specific end use(s):** No further relevant information available.

## 8 Exposure Controls/Personal Protection

**Additional information about design of technical systems:** No further data; see item 7.

**Control parameters**
**Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls:**
**Personal protective equipment:**
**General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:** Not required.

**Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Goggles recommended during refilling.

## 9 Physical and Chemical Properties

**Information on basic physical and chemical properties**
**General Information**
**Appearance**

|                        |                 |
|------------------------|-----------------|
| <b>Form:</b>           | Liquid          |
| <b>Color:</b>          | Dark            |
| <b>Odor:</b>           | Odorless        |
| <b>Odor threshold:</b> | Not determined. |

|                  |                 |
|------------------|-----------------|
| <b>pH-value:</b> | Not determined. |
|------------------|-----------------|

**Change in condition**

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Melting point/Melting range:</b> | Undetermined.   |
| <b>Boiling point/Boiling range:</b> | 100 °C (212 °F) |

|                     |                 |
|---------------------|-----------------|
| <b>Flash point:</b> | Not applicable. |
|---------------------|-----------------|

|                                       |                 |
|---------------------------------------|-----------------|
| <b>Flammability (solid, gaseous):</b> | Not applicable. |
|---------------------------------------|-----------------|

|                                   |                 |
|-----------------------------------|-----------------|
| <b>Decomposition temperature:</b> | Not determined. |
|-----------------------------------|-----------------|

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/08/2018

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**Product Name: Goldner's Trichrome Ponceau/Acid Fuchsin**


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|   |   |
|---|---|
| <b>Auto igniting:</b>                           | Product is not selfigniting.                  |
| <b>Danger of explosion:</b>                     | Product does not present an explosion hazard. |
| <b>Explosion limits:</b>                        |   |
| <b>Lower:</b>                                   | Not determined.                               |
| <b>Upper:</b>                                   | Not determined.                               |
| <b>Vapor pressure at 20 °C (68 °F):</b>         | 23 hPa (17.3 mm Hg)                           |
| <b>Density:</b>                                 | Not determined.                               |
| <b>Relative density:</b>                        | Not determined.                               |
| <b>Vapour density:</b>                          | Not determined.                               |
| <b>Evaporation rate:</b>                        | Not determined.                               |
| <b>Solubility in / Miscibility with Water:</b>  | Fully miscible.                               |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined.                               |
| <b>Dynamic:</b>                                 | Not determined.                               |
| <b>Kinematic:</b>                               | Not determined.                               |
| <b>Other information:</b>                       | No further relevant information available.    |

---

## 10 Stability and Reactivity

**Reactivity:** No further relevant information available.

**Chemical stability:**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

---

## 11 Toxicology Information

**Information on toxicological effects**

**Acute toxicity:**

**Primary irritant effect:**

**On the skin:** No irritant effect.

**On the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

**Carcinogenic categories**

|  |    |
|--|----|
| <b>IARC (International Agency for Research on Cancer)</b>                          |    |
| 3761-53-3   3-Hydroxy-4-(2,4-xyllyazo)-2,7-naphtalenedisulfonic acid disodium salt | 2B |
| <b>NTP (National Toxicology Program)</b>   |    |
| None of the ingredients are listed.  |    |

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# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/08/2018

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**Product Name: Goldner's Trichrome Ponceau/Acid Fuchsin**


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|  |
|--|
| <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b> |
|--|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

---

## 12 Ecological Information

**Toxicity:****Aquatic toxicity:** No further relevant information available.**Persistence and degradability:** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available.**Additional ecological information:****General notes:** Generally not hazardous for water**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects:** No further relevant information available.

## 13 Disposal Considerations

**Waste treatment methods:****Recommendation:**

Smaller quantities can be disposed of with household waste.

Disposal must be according to official regulations.

**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport Information

|   |                 |
|---|-----------------|
| <b>UN-Number</b><br>DOT, ADR, ADN, IMDG, IATA                                   | Not applicable  |
| <b>UN proper shipping name</b><br>DOT, ADR, ADN, IMDG, IATA                     | Not applicable  |
| <b>Transport hazard class(es)</b><br>DOT, ADR, ADN, IMDG, IATA<br>Class         | Not applicable  |
| <b>Packing group</b><br>DOT, ADR, IMDG, IATA                                    | Not applicable  |
| <b>Environmental hazards</b>  | Not applicable. |
| <b>Special precautions for user:</b>  | Not applicable. |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | Not applicable. |

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/08/2018

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**Product Name: Goldner's Trichrome Ponceau/Acid Fuchsin**


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|                               |                |
|-------------------------------|----------------|
| <b>UN "Model Regulation":</b> | Not applicable |
|-------------------------------|----------------|

---

### 15 Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**SARA**

|  |
|--|
| <b>Section 355 (extremely hazardous substances):</b> |
|--|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

|  |
|--|
| <b>Section 313 (Specific toxic chemical listings):</b> |
|--|

|   |
|---|
| 3761-53-3   3-Hydroxy-4-(2,4-xlylazo)-2,7-naphtalenedisulfonic acid disodium salt |
|---|

|   |
|---|
| <b>TSCA (Toxic Substances Control Act):</b> |
|---|

|                             |
|-----------------------------|
| All ingredients are listed. |
|-----------------------------|

|   |
|---|
| <b>TSCA new (21st Century Act) (Substances not listed)</b><br><b>Proposition 65</b> |
|---|

|   |
|---|
| <b>Chemicals known to cause cancer:</b> |
|---|

|   |
|---|
| 3761-53-3   3-Hydroxy-4-(2,4-xlylazo)-2,7-naphtalenedisulfonic acid disodium salt |
|---|

|  |
|--|
| <b>Chemicals known to cause reproductive toxicity for females:</b> |
|--|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

|  |
|--|
| <b>Chemicals known to cause reproductive toxicity for males:</b> |
|--|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

|   |
|---|
| <b>Chemicals known to cause developmental toxicity:</b> |
|---|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

**Carcinogenic categories**

|  |
|--|
| <b>EPA (Environmental Protection Agency)</b> |
|--|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

|   |
|---|
| <b>TLV (Threshold Limit Value established by ACGIH)</b> |
|---|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

|   |
|---|
| <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b> |
|---|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

**GHS label elements** Not applicable

**Hazard pictograms** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 16 Other Information

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/08/2018

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**Product Name: Goldner's Trichrome Ponceau/Acid Fuchsin**

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This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

**Department issuing SDS:** Regulatory Department**Contact:** Phone (800) 860-4073**Date of preparation / last revision** 02/14/2018 / -**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

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## SAFETY DATA SHEET In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/22/2018

### 1 Identification of the Substance/Mixture and Company

**Product Name:** Phosphomolybdic Acid - Orange G

**SDS Code:** SSAHP10

**Product Description:** Laboratory Reagent

**Manufacturer/Supplier:**

American MasterTech  
1330 Thurman Street  
Lodi, CA 95240  
USA  
(800) 860-4073

**European Authorized Representative:**

Emergo Europe  
Prinsessegracht 20  
2514 AP The Hague,  
The Netherlands

**Emergency Telephone Number:** Infotrac (800) 535-5053 (24 hours) - International (011) 352-323-3500

### 2 Hazards Identification

**Classification of the substance or mixture**



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

**Label elements**

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**



GHS05

**Signal word** Danger

**Hazard-determining components of labeling:**

Phosphomolybdic Acid

**Hazard statements**

Causes skin irritation.

Causes serious eye damage.

**Precautionary statements**

Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/22/2018

---

**Product Name: Phosphomolybdic Acid - Orange G**


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If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

**Classification system:****NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

**Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

### 3 Composition

**Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with nonhazardous additions.**Dangerous components:**

|            |                      |          |
|------------|----------------------|----------|
| 51429-74-4 | Phosphomolybdic Acid | ≥2.5-≤5% |
|------------|----------------------|----------|

### 4 First Aid Measures

**Description of first aid measures****After inhalation:** In case of unconsciousness place patient stably in side position for transportation.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:** If symptoms persist consult doctor.**Information for doctor:****Most important symptoms and effects, both acute and delayed:** No further relevant information available.**Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

### 5 Firefighting Measures

**Extinguishing media****Suitable extinguishing agents:** Use fire fighting measures that suit the environment.**Special hazards arising from the substance or mixture:** No further relevant information available.**Advice for firefighters****Protective equipment:** No special measures required.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/22/2018

---

**Product Name: Phosphomolybdic Acid - Orange G**


---

### 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

**Reference to other sections**

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**Protective Action Criteria for Chemicals**

| PAC-1:     |                      |                       |
|------------|----------------------|-----------------------|
| 51429-74-4 | Phosphomolybdic Acid | 2.4 mg/m <sup>3</sup> |
| PAC-2:     |                      |                       |
| 51429-74-4 | Phosphomolybdic Acid | 27 mg/m <sup>3</sup>  |
| PAC-3:     |                      |                       |
| 51429-74-4 | Phosphomolybdic Acid | 160 mg/m <sup>3</sup> |

### 7 Handling and Storage

**Handling:**
**Precautions for safe handling:** No special precautions are necessary if used correctly.

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities**
**Storage:**
**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep receptacle tightly sealed.

**Specific end use(s):** No further relevant information available.

### 8 Exposure Controls/Personal Protection

**Additional information about design of technical systems:** No further data; see item 7.

**Control parameters**
**Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists that were valid during the creation were used as basis.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/22/2018

---

**Product Name: Phosphomolybdic Acid - Orange G**


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**Exposure controls:****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

**Breathing equipment:** Not required.**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles

## 9 Physical and Chemical Properties

**Information on basic physical and chemical properties****General Information****Appearance**

|                        |                 |
|------------------------|-----------------|
| <b>Form:</b>           | Liquid          |
| <b>Color:</b>          | Orange          |
| <b>Odor:</b>           | Nearly odorless |
| <b>Odor threshold:</b> | Not determined. |

|                  |                 |
|------------------|-----------------|
| <b>pH-value:</b> | Not determined. |
|------------------|-----------------|

**Change in condition**

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Melting point/Melting range:</b> | Undetermined.   |
| <b>Boiling point/Boiling range:</b> | 100 °C (212 °F) |

|                     |                 |
|---------------------|-----------------|
| <b>Flash point:</b> | Not applicable. |
|---------------------|-----------------|

|                                       |                 |
|---------------------------------------|-----------------|
| <b>Flammability (solid, gaseous):</b> | Not applicable. |
|---------------------------------------|-----------------|

|                                   |                 |
|-----------------------------------|-----------------|
| <b>Decomposition temperature:</b> | Not determined. |
|-----------------------------------|-----------------|

|                       |                              |
|-----------------------|------------------------------|
| <b>Auto igniting:</b> | Product is not selfigniting. |
|-----------------------|------------------------------|

|                             |   |
|-----------------------------|---|
| <b>Danger of explosion:</b> | Product does not present an explosion hazard. |
|-----------------------------|---|

**Explosion limits:**

|               |                 |
|---------------|-----------------|
| <b>Lower:</b> | Not determined. |
| <b>Upper:</b> | Not determined. |

|   |                     |
|---|---------------------|
| <b>Vapor pressure at 20 °C (68 °F):</b> | 23 hPa (17.3 mm Hg) |
|---|---------------------|

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/22/2018

---

**Product Name: Phosphomolybdic Acid - Orange G**


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|   |  |
|---|--|
| <b>Density:</b>                                 | Not determined.                            |
| <b>Relative density:</b>                        | Not determined.                            |
| <b>Vapour density:</b>                          | Not determined.                            |
| <b>Evaporation rate:</b>                        | Not determined.                            |
| <b>Solubility in / Miscibility with Water:</b>  | Fully miscible.                            |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| <b>Dynamic:</b>                                 | Not determined.                            |
| <b>Kinematic:</b>                               | Not determined.                            |
| <b>Other information:</b>                       | No further relevant information available. |

---

## 10 Stability and Reactivity

**Reactivity:** No further relevant information available.

**Chemical stability:**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

---

## 11 Toxicology Information

**Information on toxicological effects**

**Acute toxicity:**

**Primary irritant effect:**

**On the skin:** Irritant to skin and mucous membranes.

**On the eye:** Strong irritant with the danger of severe eye injury.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

**Carcinogenic categories**

**IARC (International Agency for Research on Cancer)**

|           |  |   |
|-----------|--|---|
| 1936-15-8 | disodium 7-hydroxy-8-phenylazonaphthalene-1,3-disulphonate | 3 |
|-----------|--|---|

**NTP (National Toxicology Program)**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

---

## 12 Ecological Information

**Toxicity:**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

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# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/22/2018

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**Product Name: Phosphomolybdic Acid - Orange G**


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**Behavior in environmental systems:****Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available.**Additional ecological information:****General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects:** No further relevant information available.

### 13 Disposal Considerations

**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport Information

|   |                 |
|---|-----------------|
| <b>UN-Number</b><br>DOT, ADR, ADN, IMDG, IATA                                   | Not applicable  |
| <b>UN proper shipping name</b><br>DOT, ADR, ADN, IMDG, IATA                     | Not applicable  |
| <b>Transport hazard class(es)</b><br>DOT, ADR, ADN, IMDG, IATA<br>Class         | Not applicable  |
| <b>Packing group</b><br>DOT, ADR, IMDG, IATA                                    | Not applicable  |
| <b>Environmental hazards</b><br>Marine pollutant:                               | No              |
| <b>Special precautions for user:</b>  | Not applicable. |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | Not applicable. |
| <b>UN "Model Regulation":</b>   | Not applicable  |

### 15 Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture  
SARA

**Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/22/2018

---

**Product Name: Phosphomolybdic Acid - Orange G**


---

**Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):**

1936-15-8 disodium 7-hydroxy-8-phenylazonaphthalene-1,3-disulphonate

7732-18-5 water, distilled, conductivity or of similar purity

**TSCA new (21st Century Act) (Substances not listed)**

51429-74-4 Phosphomolybdic Acid

**Proposition 65****Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**Carcinogenic categories****EPA (Environmental Protection Agency)**

None of the ingredients are listed.

**TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).**Hazard pictograms**

GHS05

**Signal word** Danger**Hazard-determining components of labeling:**

Phosphomolybdic Acid

**Hazard statements**

Causes skin irritation.

Causes serious eye damage.

**Precautionary statements**

Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/22/2018

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**Product Name: Phosphomolybdic Acid - Orange G**


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Take off contaminated clothing and wash it before reuse.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 16 Other Information

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

**Department issuing SDS:** Regulatory Department

**Contact:** Phone (800) 860-4073

**Date of preparation / last revision** 02/14/2018 / -

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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## SAFETY DATA SHEET

In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/14/2018

### 1 Identification of the Substance/Mixture and Company

**Product Name:** Goldner's Trichrome Light Green Stain

**SDS Code:** SSKC812

**Product Description:** Histology Stain

**Manufacturer/Supplier:**

American MasterTech  
1330 Thurman Street  
Lodi, CA 95240  
USA  
(800) 860-4073

**European Authorized Representative:**

Emergo Europe  
Prinsessegracht 20  
2514 AP The Hague,  
The Netherlands

**Emergency Telephone Number:** Infotrac (800) 535-5053 (24 hours) - International (011) 352-323-3500

### 2 Hazards Identification

**Classification of the substance or mixture**

The product is not classified according to the Globally Harmonized System (GHS).

**Label elements**

**GHS label elements** Not applicable

**Hazard pictograms** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

**Classification system:**

**NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 3 Composition

**Chemical characterization: Mixtures**

**Description:** Mixture of the substances listed below with nonhazardous additions.

**Dangerous components:** Not applicable

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/14/2018

---

**Product Name: Goldner's Trichrome Light Green Stain**


---

### 4 First Aid Measures

**Description of first aid measures**
**General information:** No special measures required.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** If symptoms persist consult doctor.

**Information for doctor:**
**Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed:**

 No further relevant information available.
 

---

### 5 Firefighting Measures

**Extinguishing media**
**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Special hazards arising from the substance or mixture:** No further relevant information available.

**Advice for firefighters**
**Protective equipment:** No special measures required.
 

---

### 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Not required.

**Environmental precautions:** Dilute with plenty of water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Reference to other sections**

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**Protective Action Criteria for Chemicals**

| PAC-1:  |             |                       |
|---------|-------------|-----------------------|
| 64-19-7 | acetic acid | 5 ppm                 |
| 89-83-8 | thymol      | 2.9 mg/m <sup>3</sup> |
| PAC-2:  |             |                       |
| 64-19-7 | acetic acid | 35 ppm                |
| 89-83-8 | thymol      | 32 mg/m <sup>3</sup>  |
| PAC-3:  |             |                       |
| 64-19-7 | acetic acid | 250 ppm               |
| 89-83-8 | thymol      | 190 mg/m <sup>3</sup> |

---

### 7 Handling and Storage

**Handling:**
**Precautions for safe handling:** No special measures required.
 

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# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/14/2018

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**Product Name: Goldner's Trichrome Light Green Stain**


---

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None.

**Specific end use(s):** No further relevant information available.

---

## 8 Exposure Controls/Personal Protection

**Additional information about design of technical systems:** No further data; see item 7.

**Control parameters**

**Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls:**

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:** Not required.

**Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Goggles recommended during refilling.

---

## 9 Physical and Chemical Properties

**Information on basic physical and chemical properties**

**General Information**

**Appearance**

|                        |                      |
|------------------------|----------------------|
| <b>Form:</b>           | Liquid               |
| <b>Color:</b>          | Green                |
| <b>Odor:</b>           | Weak, characteristic |
| <b>Odor threshold:</b> | Not determined.      |

|                  |                 |
|------------------|-----------------|
| <b>pH-value:</b> | Not determined. |
|------------------|-----------------|

**Change in condition**

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Melting point/Melting range:</b> | Undetermined.   |
| <b>Boiling point/Boiling range:</b> | 100 °C (212 °F) |

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/14/2018

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**Product Name: Goldner's Trichrome Light Green Stain**


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|   |   |
|---|---|
| <b>Flash point:</b>                             | Not applicable.                               |
| <b>Flammability (solid, gaseous):</b>           | Not applicable.                               |
| <b>Decomposition temperature:</b>               | Not determined.                               |
| <b>Auto igniting:</b>                           | Product is not selfigniting.                  |
| <b>Danger of explosion:</b>                     | Product does not present an explosion hazard. |
| <b>Explosion limits:</b>                        |   |
| <b>Lower:</b>                                   | Not determined.                               |
| <b>Upper:</b>                                   | Not determined.                               |
| <b>Vapor pressure at 20 °C (68 °F):</b>         | 23 hPa (17.3 mm Hg)                           |
| <b>Density at 20 °C (68 °F):</b>                | 1.00008 g/cm <sup>3</sup> (8.34567 lbs/gal)   |
| <b>Relative density:</b>                        | Not determined.                               |
| <b>Vapour density:</b>                          | Not determined.                               |
| <b>Evaporation rate:</b>                        | Not determined.                               |
| <b>Solubility in / Miscibility with Water:</b>  | Fully miscible.                               |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined.                               |
| <b>Dynamic:</b>                                 | Not determined.                               |
| <b>Kinematic:</b>                               | Not determined.                               |
| <b>Other information:</b>                       | No further relevant information available.    |

---

## 10 Stability and Reactivity

**Reactivity:** No further relevant information available.

**Chemical stability:**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

---

## 11 Toxicology Information

**Information on toxicological effects**

**Acute toxicity:**

**Primary irritant effect:**

**On the skin:** No irritant effect.

**On the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/14/2018

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**Product Name: Goldner's Trichrome Light Green Stain**


---

### Carcinogenic categories

|  |   |
|--|---|
| <b>IARC (International Agency for Research on Cancer)</b>        |   |
| 5141-20-8   Light Green SF Yellowish                             | 3 |
| <b>NTP (National Toxicology Program)</b>                         |   |
| None of the ingredients are listed.                              |   |
| <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b> |   |
| None of the ingredients are listed.                              |   |

## 12 Ecological Information

### Toxicity:

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

### Behavior in environmental systems:

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

### Additional ecological information:

**General notes:** Generally not hazardous for water

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:** No further relevant information available.

## 13 Disposal Considerations

### Waste treatment methods:

#### Recommendation:

Smaller quantities can be disposed of with household waste.

Disposal must be according to official regulations.

### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport Information

|   |                |
|---|----------------|
| <b>UN-Number</b><br>DOT, ADR, ADN, IMDG, IATA                           | Not applicable |
| <b>UN proper shipping name</b><br>DOT, ADR, ADN, IMDG, IATA             | Not applicable |
| <b>Transport hazard class(es)</b><br>DOT, ADR, ADN, IMDG, IATA<br>Class | Not applicable |
| <b>Packing group</b><br>DOT, ADR, IMDG, IATA                            | Not applicable |



# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/14/2018

---

**Product Name: Goldner's Trichrome Light Green Stain**


---

|   |                 |
|---|-----------------|
| <b>Environmental hazards</b>  |                 |
| <b>Marine pollutant:</b>  | No              |
| <b>Special precautions for user:</b>  | Not applicable. |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | Not applicable. |
| <b>UN "Model Regulation":</b>   | Not applicable  |

---

### 15 Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture  
SARA

**Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

**Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**TSCA new (21st Century Act) (Substances not listed)  
Proposition 65**

**Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**Carcinogenic categories**

**EPA (Environmental Protection Agency)**

None of the ingredients are listed.

**TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

**GHS label elements** Not applicable

**Hazard pictograms** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 02/14/2018

---

**Product Name: Goldner's Trichrome Light Green Stain**

---

### 16 Other Information

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

**Department issuing SDS:** Regulatory Department**Contact:** Phone (800) 860-4073**Date of preparation / last revision** 02/14/2018 / -**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

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## SAFETY DATA SHEET

In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/19/2018

### 1 Identification of the Substance/Mixture and Company

**Product Name:** 1% Acetic Acid

**SDS Code:** SSAHA03

**Product Description:** Laboratory Reagent

**Manufacturer/Supplier:**

American MasterTech  
1330 Thurman Street  
Lodi, CA 95240  
USA  
(800) 860-4073

**European Authorized Representative:**

Emergo Europe  
Prinsessegracht 20  
2514 AP The Hague,  
The Netherlands

**Emergency Telephone Number:** Infotrac (800) 535-5053 (24 hours) - International (011) 352-323-3500

### 2 Hazards Identification

**Classification of the substance or mixture**

The product is not classified according to the Globally Harmonized System (GHS).

**Label elements**

**GHS label elements** Not applicable

**Hazard pictograms** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

**Classification system:**

**NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 3 Composition

**Chemical characterization: Mixtures**

**Description:** Mixture of the substances listed below with nonhazardous additions.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/19/2018

---

**Product Name: 1% Acetic Acid**


---

**Dangerous components:**

64-19-7 acetic acid

≥0.1-≤2.5%

### 4 First Aid Measures

**Description of first aid measures****General information:** No special measures required.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:** If symptoms persist consult doctor.**Information for doctor:****Most important symptoms and effects, both acute and delayed:** No further relevant information available.**Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

### 5 Firefighting Measures

**Extinguishing media****Suitable extinguishing agents:** Use fire fighting measures that suit the environment.**Special hazards arising from the substance or mixture:** No further relevant information available.**Advice for firefighters****Protective equipment:** No special measures required.

### 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Not required.**Environmental precautions:** Dilute with plenty of water.**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**Protective Action Criteria for Chemicals****PAC-1:**

64-19-7 acetic acid

5 ppm

**PAC-2:**

64-19-7 acetic acid

35 ppm

**PAC-3:**

64-19-7 acetic acid

250 ppm

### 7 Handling and Storage

**Handling:****Precautions for safe handling:** No special measures required.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/19/2018

---

**Product Name: 1% Acetic Acid**


---

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None.

**Specific end use(s):** No further relevant information available.

---

## 8 Exposure Controls/Personal Protection

**Additional information about design of technical systems:** No further data; see item 7.

**Control parameters**

**Components with limit values that require monitoring at the workplace:**

**64-19-7 acetic acid**

|     |   |
|-----|---|
| PEL | Long-term value: 25 mg/m <sup>3</sup> , 10 ppm  |
| REL | Short-term value: 37 mg/m <sup>3</sup> , 15 ppm |
|     | Long-term value: 25 mg/m <sup>3</sup> , 10 ppm  |
| TLV | Short-term value: 37 mg/m <sup>3</sup> , 15 ppm |
|     | Long-term value: 25 mg/m <sup>3</sup> , 10 ppm  |

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls:**

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:** Not required.

**Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Goggles recommended during refilling.

---

## 9 Physical and Chemical Properties

**Information on basic physical and chemical properties**

**General Information**

**Appearance**

**Form:** Liquid

**Color:** Colorless

**Odor:** Acidic

---

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/19/2018

---

**Product Name: 1% Acetic Acid**


---

|   |   |
|---|---|
| <b>Odor threshold:</b>                          | Not determined.                               |
| <b>pH-value:</b>                                | Not determined.                               |
| <b>Change in condition</b>                      |   |
| <b>Melting point/Melting range:</b>             | Undetermined.                                 |
| <b>Boiling point/Boiling range:</b>             | 100 °C (212 °F)                               |
| <b>Flash point:</b>                             | Not applicable.                               |
| <b>Flammability (solid, gaseous):</b>           | Not applicable.                               |
| <b>Decomposition temperature:</b>               | Not determined.                               |
| <b>Auto igniting:</b>                           | Product is not selfigniting.                  |
| <b>Danger of explosion:</b>                     | Product does not present an explosion hazard. |
| <b>Explosion limits:</b>                        |   |
| <b>Lower:</b>                                   | Not determined.                               |
| <b>Upper:</b>                                   | Not determined.                               |
| <b>Vapor pressure at 20 °C (68 °F):</b>         | 23 hPa (17.3 mm Hg)                           |
| <b>Density:</b>                                 | Not determined.                               |
| <b>Relative density:</b>                        | Not determined.                               |
| <b>Vapour density:</b>                          | Not determined.                               |
| <b>Evaporation rate:</b>                        | Not determined.                               |
| <b>Solubility in / Miscibility with Water:</b>  | Fully miscible.                               |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined.                               |
| <b>Dynamic:</b>                                 | Not determined.                               |
| <b>Kinematic:</b>                               | Not determined.                               |
| <b>Other information:</b>                       | No further relevant information available.    |

---

## 10 Stability and Reactivity

**Reactivity:** No further relevant information available.

**Chemical stability:**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

---

## 11 Toxicology Information

**Information on toxicological effects**

**Acute toxicity:**

**Primary irritant effect:**

**On the skin:** No irritant effect.

**On the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

---

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/19/2018

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**Product Name: 1% Acetic Acid**


---

**Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

**Carcinogenic categories**

|  |
|--|
| <b>IARC (International Agency for Research on Cancer)</b>        |
| None of the ingredients are listed.                              |
| <b>NTP (National Toxicology Program)</b>                         |
| None of the ingredients are listed.                              |
| <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b> |
| None of the ingredients are listed.                              |

---

## 12 Ecological Information

**Toxicity:****Aquatic toxicity:** No further relevant information available.**Persistence and degradability:** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available.**Additional ecological information:****General notes:** Generally not hazardous for water**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects:** No further relevant information available.

## 13 Disposal Considerations

**Waste treatment methods:****Recommendation:**

Smaller quantities can be disposed of with household waste.

Disposal must be according to official regulations.

**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport Information

|   |                |
|---|----------------|
| <b>UN-Number</b><br>DOT, ADR, ADN, IMDG, IATA               | Not applicable |
| <b>UN proper shipping name</b><br>DOT, ADR, ADN, IMDG, IATA | Not applicable |

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# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/19/2018

---

**Product Name: 1% Acetic Acid**


---

|   |                 |
|---|-----------------|
| <b>Transport hazard class(es)</b>   |                 |
| <b>DOT, ADR, ADN, IMDG, IATA Class</b>  | Not applicable  |
| <b>Packing group</b>  |                 |
| <b>DOT, ADR, IMDG, IATA</b>   | Not applicable  |
| <b>Environmental hazards</b>  | Not applicable. |
| <b>Special precautions for user:</b>  | Not applicable. |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | Not applicable. |
| <b>UN "Model Regulation":</b>   | Not applicable  |

### 15 Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**SARA**

**Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

**Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**Proposition 65**

**Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**Carcinogenic categories**

**EPA (Environmental Protection Agency)**

None of the ingredients are listed.

**TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

**GHS label elements** Not applicable

**Hazard pictograms** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable



# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/19/2018

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**Product Name: 1% Acetic Acid**

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**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 16 Other Information

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

**Department issuing SDS:** Regulatory Department**Contact:** Phone (800) 860-4073**Date of preparation / last revision** 02/14/2018 / -**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

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## SAFETY DATA SHEET In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

### 1 Identification of the Substance/Mixture and Company

**Product Name:** Weigert's A Hematoxylin

**SDS Code:** SSHXWHEA

**Product Description:** Histology Stain

**Manufacturer/Supplier:**

American MasterTech  
1330 Thurman Street  
Lodi, CA 95240  
USA  
(800) 860-4073

**European Authorized Representative:**

Emergo Europe  
Prinsessegracht 20  
2514 AP The Hague,  
The Netherlands

**Emergency Telephone Number:** Infotrac (800) 535-5053 (24 hours) - International (011) 352-323-3500

### 2 Hazards Identification

**Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

**Label elements**

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**



GHS02 GHS08

**Signal word** Danger

**Hazard-determining components of labeling:**

ethanol

**Hazard statements**

Highly flammable liquid and vapor.

May cause cancer.

**Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

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**Product Name: Weigert's A Hematoxylin**


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Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Keep container tightly closed.  
 Ground/bond container and receiving equipment.  
 Use explosion-proof electrical/ventilating/lighting/equipment.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF exposed or concerned: Get medical advice/attention.  
 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
 Store in a well-ventilated place. Keep cool.  
 Store locked up.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:****NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 3

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = 1

Fire = 3

Reactivity = 0

**Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

### 3 Composition

**Chemical characterization: Substances****CAS No. Description**

64-17-5 ethanol

**Identification number(s)****EC number:** 200-578-6**Index number:** 603-002-00-5**Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with nonhazardous additions.

| <b>Dangerous components:</b> |             |         |
|------------------------------|-------------|---------|
| 64-17-5                      | ethanol     | 50-100% |
| 67-63-0                      | propan-2-ol | 2.5-10% |

### 4 First Aid Measures

**Description of first aid measures****After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:** If symptoms persist consult doctor.**Information for doctor:****Most important symptoms and effects, both acute and delayed:** No further relevant information available.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

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**Product Name: Weigert's A Hematoxylin**


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**Indication of any immediate medical attention and special treatment needed:**  
 No further relevant information available.
 

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### 5 Firefighting Measures

**Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**Special hazards arising from the substance or mixture:** No further relevant information available.**Advice for firefighters****Protective equipment:** No special measures required.

### 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**Protective Action Criteria for Chemicals****PAC-1:**

|         |             |           |
|---------|-------------|-----------|
| 64-17-5 | ethanol     | 1,800 ppm |
| 67-63-0 | propan-2-ol | 400 ppm   |

**PAC-2:**

|         |             |           |
|---------|-------------|-----------|
| 64-17-5 | ethanol     | 3300* ppm |
| 67-63-0 | propan-2-ol | 2000* ppm |

**PAC-3:**

|         |             |             |
|---------|-------------|-------------|
| 64-17-5 | ethanol     | 15000* ppm  |
| 67-63-0 | propan-2-ol | 12000** ppm |

### 7 Handling and Storage

**Handling:****Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace.**Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

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**Product Name: Weigert's A Hematoxylin**


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**Conditions for safe storage, including any incompatibilities**
**Storage:**
**Requirements to be met by storerooms and receptacles:** Store in a cool location.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

**Specific end use(s):** No further relevant information available.

## 8 Exposure Controls/Personal Protection

**Additional information about design of technical systems:** No further data; see item 7.

**Control parameters**
**Components with limit values that require monitoring at the workplace:**
**64-17-5 ethanol**

 PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

 REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

 TLV Short-term value: 1880 mg/m<sup>3</sup>, 1000 ppm

**67-63-0 propan-2-ol**

 PEL Long-term value: 980 mg/m<sup>3</sup>, 400 ppm

 REL Short-term value: 1225 mg/m<sup>3</sup>, 500 ppm

 Long-term value: 980 mg/m<sup>3</sup>, 400 ppm

 TLV Short-term value: 984 mg/m<sup>3</sup>, 400 ppm

 Long-term value: 492 mg/m<sup>3</sup>, 200 ppm

BEI

**Ingredients with biological limit values:**
**67-63-0 propan-2-ol**

BEI 40 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Acetone (background, nonspecific)

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls:**
**Personal protective equipment:**
**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

**Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

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**Product Name: Weigert's A Hematoxylin**


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**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles

---

## 9 Physical and Chemical Properties

### Information on basic physical and chemical properties

#### General Information

#### Appearance

|                        |                 |
|------------------------|-----------------|
| <b>Form:</b>           | Liquid          |
| <b>Color:</b>          | Brown           |
| <b>Odor:</b>           | Alcohol-like    |
| <b>Odor threshold:</b> | Not determined. |

**pH-value:** Not determined.

#### Change in condition

|                                     |                       |
|-------------------------------------|-----------------------|
| <b>Melting point/Melting range:</b> | -114.5 °C (-174.1 °F) |
| <b>Boiling point/Boiling range:</b> | 78 °C (172.4 °F)      |

**Flash point:** 13 °C (55.4 °F)

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature:** 425 °C (797 °F)

**Decomposition temperature:** Not determined.

**Auto igniting:** Product is not selfigniting.

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

#### Explosion limits:

|               |           |
|---------------|-----------|
| <b>Lower:</b> | 3.5 Vol % |
| <b>Upper:</b> | 15 Vol %  |

**Vapor pressure at 20 °C (68 °F):** 59 hPa (44.3 mm Hg)

**Density:** Not determined.

**Relative density:** Not determined.

**Vapour density:** Not determined.

**Evaporation rate:** Not determined.

#### Solubility in / Miscibility with

**Water at 20 °C (68 °F):** 1 g/l

**Partition coefficient (n-octanol/water):** Not determined.

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**Other information:** No further relevant information available.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

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**Product Name: Weigert's A Hematoxylin**


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### 10 Stability and Reactivity

**Reactivity:** No further relevant information available.

**Chemical stability:**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

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### 11 Toxicology Information

**Information on toxicological effects**

**Acute toxicity:**

**Primary irritant effect:**

**On the skin:** No irritant effect.

**On the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

**Carcinogenic categories**

| IARC (International Agency for Research on Cancer)    |             |   |
|---|-------------|---|
| 64-17-5   | ethanol     | 1 |
| 67-63-0   | propan-2-ol | 3 |
| NTP (National Toxicology Program)                     |             |   |
| None of the ingredients are listed.                   |             |   |
| OSHA-Ca (Occupational Safety & Health Administration) |             |   |
| None of the ingredients are listed.                   |             |   |

---

### 12 Ecological Information

**Toxicity:**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Behavior in environmental systems:**

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Additional ecological information:**

**General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:** No further relevant information available.

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# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

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**Product Name: Weigert's A Hematoxylin**


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### 13 Disposal Considerations

**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport Information

|   |   |
|---|---|
| <b>UN-Number</b><br>DOT, ADR, IMDG, IATA  | UN1170  |
| <b>UN proper shipping name</b><br>DOT<br>ADR<br>IMDG<br>IATA  | Ethanol<br>1170 Ethanol<br>ETHANOL (ETHYL ALCOHOL)<br>ETHANOL   |
| <b>Transport hazard class(es)</b><br>DOT  |   |
|                                     |   |
| <b>Class</b><br><b>Label</b>  | 3 Flammable liquids<br>3  |
| <b>ADR, IMDG, IATA</b>  |   |
|                                    |   |
| <b>Class</b><br><b>Label</b>  | 3 Flammable liquids<br>3  |
| <b>Packing group</b><br>DOT, ADR, IMDG, IATA  | II  |
| <b>Environmental hazards</b><br><b>Marine pollutant:</b>  | No  |
| <b>Special precautions for user:</b><br><b>Danger code (Kemler):</b><br><b>EMS Number:</b><br><b>Stowage Category</b> | Warning: Flammable liquids<br>33<br>F-E,S-D<br>A                |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>                                       | Not applicable.   |
| <b>Transport/Additional information:</b><br>DOT   |   |
| <b>Quantity limitations</b>   | On passenger aircraft/rail: 5 L<br>On cargo aircraft only: 60 L |



# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

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**Product Name: Weigert's A Hematoxylin**


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|  |   |
|--|---|
| <b>ADR</b><br><b>Excepted quantities (EQ)</b>                                    | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml       |
| <b>IMDG</b><br><b>Limited quantities (LQ)</b><br><b>Excepted quantities (EQ)</b> | 1L<br>Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| <b>UN "Model Regulation":</b>  | UN 1170 ETHANOL, 3, II  |

### 15 Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture  
SARA

**Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

**Section 313 (Specific toxic chemical listings):**

67-63-0 | propan-2-ol

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**TSCA new (21st Century Act) (Substances not listed)**
**Proposition 65**
**Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

64-17-5 | ethanol

**Carcinogenic categories**
**EPA (Environmental Protection Agency)**

None of the ingredients are listed.

**TLV (Threshold Limit Value established by ACGIH)**

64-17-5 | ethanol

A3

67-63-0 | propan-2-ol

A4

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

---

**Product Name: Weigert's A Hematoxylin**


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**Hazard pictograms**

GHS02 GHS08

**Signal word** Danger**Hazard-determining components of labeling:**

ethanol

**Hazard statements**

Highly flammable liquid and vapor.

May cause cancer.

**Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If exposed or concerned: Get medical advice/attention.

In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**National regulations:****Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

**Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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## 16 Other Information

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

**Department issuing SDS:** Regulatory Department**Contact:** Phone (800) 860-4073**Date of preparation / last revision** 02/14/2018 / -

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

---

**Product Name: Weigert's A Hematoxylin**

---

---

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
BEI: Biological Exposure Limit  
Flam. Liq. 2: Flammable liquids – Category 2  
Carc. 1A: Carcinogenicity – Category 1A

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## SAFETY DATA SHEET In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

### 1 Identification of the Substance/Mixture and Company

**Product Name:** Weigert's B Hematoxylin

**SDS Code:** SSHXWHEB

**Product Description:** Histology Stain

**Manufacturer/Supplier:**

American MasterTech  
1330 Thurman Street  
Lodi, CA 95240  
USA  
(800) 860-4073

**European Authorized Representative:**

Emergo Europe  
Prinsessegracht 20  
2514 AP The Hague,  
The Netherlands

**Emergency Telephone Number:** Infotrac (800) 535-5053 (24 hours) - International (011) 352-323-3500

### 2 Hazards Identification

**Classification of the substance or mixture**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

**Label elements**

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**



GHS07

**Signal word** Warning

**Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

**Precautionary statements**

Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

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**Product Name: Weigert's B Hematoxylin**


---

**Classification system:****NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

**Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

### 3 Composition

**Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with nonhazardous additions.**Dangerous components:**

|            |                 |          |
|------------|-----------------|----------|
| 10025-77-1 | Ferric Chloride | ≥1-≤2.5% |
|------------|-----------------|----------|

### 4 First Aid Measures

**Description of first aid measures****After inhalation:** In case of unconsciousness place patient stably in side position for transportation.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing:** If symptoms persist consult doctor.**Information for doctor:****Most important symptoms and effects, both acute and delayed:** No further relevant information available.**Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

### 5 Firefighting Measures

**Extinguishing media****Suitable extinguishing agents:** Use fire fighting measures that suit the environment.**Special hazards arising from the substance or mixture:** No further relevant information available.**Advice for firefighters****Protective equipment:** No special measures required.

### 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Not required.**Environmental precautions:** Dilute with plenty of water.**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

---

**Product Name: Weigert's B Hematoxylin**


---

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**Protective Action Criteria for Chemicals**

| <b>PAC-1:</b> |                   |                       |
|---------------|-------------------|-----------------------|
| 10025-77-1    | Ferric Chloride   | 15 mg/m <sup>3</sup>  |
| 7647-01-0     | hydrogen chloride | 1.8 ppm               |
| <b>PAC-2:</b> |                   |                       |
| 10025-77-1    | Ferric Chloride   | 39 mg/m <sup>3</sup>  |
| 7647-01-0     | hydrogen chloride | 22 ppm                |
| <b>PAC-3:</b> |                   |                       |
| 10025-77-1    | Ferric Chloride   | 240 mg/m <sup>3</sup> |
| 7647-01-0     | hydrogen chloride | 100 ppm               |

---

## 7 Handling and Storage

**Handling:****Precautions for safe handling:** No special precautions are necessary if used correctly.**Information about protection against explosions and fires:** No special measures required.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** No special requirements.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** Keep receptacle tightly sealed.**Specific end use(s):** No further relevant information available.

## 8 Exposure Controls/Personal Protection

**Additional information about design of technical systems:** No further data; see item 7.**Control parameters****Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists that were valid during the creation were used as basis.**Exposure controls:****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Breathing equipment:** Not required.**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

---

**Product Name: Weigert's B Hematoxylin**


---

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles

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## 9 Physical and Chemical Properties

### Information on basic physical and chemical properties

#### General Information

##### Appearance

|                        |                 |
|------------------------|-----------------|
| <b>Form:</b>           | Liquid          |
| <b>Color:</b>          | Light yellow    |
| <b>Odor:</b>           | Odorless        |
| <b>Odor threshold:</b> | Not determined. |

**pH-value:** Not determined.

#### Change in condition

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Melting point/Melting range:</b> | Undetermined.   |
| <b>Boiling point/Boiling range:</b> | 100 °C (212 °F) |

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Not applicable.

**Decomposition temperature:** Not determined.

**Auto igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

#### Explosion limits:

|               |                 |
|---------------|-----------------|
| <b>Lower:</b> | Not determined. |
| <b>Upper:</b> | Not determined. |

**Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)

|                          |                 |
|--------------------------|-----------------|
| <b>Density:</b>          | Not determined. |
| <b>Relative density:</b> | Not determined. |
| <b>Vapour density:</b>   | Not determined. |
| <b>Evaporation rate:</b> | Not determined. |

#### Solubility in / Miscibility with

**Water:** Fully miscible.

**Partition coefficient (n-octanol/water):** Not determined.

**Dynamic:** Not determined.

**Kinematic:** Not determined.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

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**Product Name: Weigert's B Hematoxylin**


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|                           |  |
|---------------------------|--|
| <b>Other information:</b> | No further relevant information available. |
|---------------------------|--|

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### 10 Stability and Reactivity

**Reactivity:** No further relevant information available.**Chemical stability:****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Possibility of hazardous reactions:** No dangerous reactions known.**Conditions to avoid:** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicology Information

**Information on toxicological effects****Acute toxicity:****Primary irritant effect:****On the skin:** Irritant to skin and mucous membranes.**On the eye:** Irritating effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:**The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant**Carcinogenic categories****IARC (International Agency for Research on Cancer)**

7647-01-0 | hydrogen chloride

3

**NTP (National Toxicology Program)**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

### 12 Ecological Information

**Toxicity:****Aquatic toxicity:** No further relevant information available.**Persistence and degradability:** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available.**Additional ecological information:****General notes:** Generally not hazardous for water**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.



# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

---

**Product Name: Weigert's B Hematoxylin**


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**Other adverse effects:** No further relevant information available.
 

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### 13 Disposal Considerations

**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport Information

|   |                 |
|---|-----------------|
| <b>UN-Number</b><br>DOT, ADR, ADN, IMDG, IATA                                   | Not applicable  |
| <b>UN proper shipping name</b><br>DOT, ADR, ADN, IMDG, IATA                     | Not applicable  |
| <b>Transport hazard class(es)</b><br>DOT, ADR, ADN, IMDG, IATA<br>Class         | Not applicable  |
| <b>Packing group</b><br>DOT, ADR, IMDG, IATA                                    | Not applicable  |
| <b>Environmental hazards</b><br>Marine pollutant:                               | No              |
| <b>Special precautions for user:</b>  | Not applicable. |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | Not applicable. |
| <b>UN "Model Regulation":</b>   | Not applicable  |

### 15 Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
SARA

**Section 355 (extremely hazardous substances):**

7647-01-0 | hydrogen chloride

**Section 313 (Specific toxic chemical listings):**

7647-01-0 | hydrogen chloride

**TSCA (Toxic Substances Control Act):**

7647-01-0 | hydrogen chloride

7732-18-5 | water, distilled, conductivity or of similar purity

**TSCA new (21st Century Act) (Substances not listed)**

10025-77-1 | Ferric Chloride

**Proposition 65****Chemicals known to cause cancer:**

None of the ingredients is listed.

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

---

**Product Name: Weigert's B Hematoxylin**


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|  |
|--|
| <b>Chemicals known to cause reproductive toxicity for females:</b> |
| None of the ingredients are listed.                                |

|  |
|--|
| <b>Chemicals known to cause reproductive toxicity for males:</b> |
| None of the ingredients are listed.                              |

|   |
|---|
| <b>Chemicals known to cause developmental toxicity:</b> |
| None of the ingredients are listed.                     |

**Carcinogenic categories**

|  |
|--|
| <b>EPA (Environmental Protection Agency)</b> |
| None of the ingredients are listed.          |

|   |
|---|
| <b>TLV (Threshold Limit Value established by ACGIH)</b> |
| 7647-01-0   hydrogen chloride                           |
| A4  |

|   |
|---|
| <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b> |
| None of the ingredients are listed.                                     |

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**

GHS07

**Signal word** Warning**Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

**Precautionary statements**

Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other Information

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

**Department issuing SDS:** Regulatory Department

# SAFETY DATA SHEET

## In Accordance with ISO/DIS 11014

Review Date 02/14/2018

Revision Date 01/30/2018

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**Product Name: Weigert's B Hematoxylin**

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**Contact:** Phone (800) 860-4073**Date of preparation / last revision** 02/14/2018 / -**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

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