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SAFETY DATA SHEET In Accordance with ISO/DIS 11014

Review Date 01/29/2018

Revision Date 01/29/2018

1 Identification of the Substance/Mixture and Company

Product Name: 10% Buffered Formalin (Blue)

SDS Code: SSFXBFOB

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.



Skin Sens. 1 H317 May cause an allergic skin reaction.

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



Signal word Danger Hazard-determining components of labeling: formaldehyde Hazard statements May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer.

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Precautionary statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. **Classification system:** NFPA ratings (scale 0 - 4) Health = 2Fire = 0Reactivity = 0HMIS-ratings (scale 0 - 4) Health = 2Fire = 0Reactivity = 0Other 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.

Dangero	ous components:	
50-00-0	formaldehyde	≥2.5-≤5%
67-56-1	methanol	≥0.1-≤2.5%

4 First Aid Measures

Description of first aid measures

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.

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.

6 Accidental Release Measures

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

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:		
50-00-0	formaldehyde	0.90 ppm
67-56-1	methanol	530 ppm
PAC-2:		
50-00-0	formaldehyde	14 ppm
67-56-1	methanol	2,100 ppm
PAC-3:		
50-00-0	formaldehyde	56 ppm
67-56-1	methanol	7200* ppm

7 Handling and Storage

Handling:

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. **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.

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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 Long-term value: 0.75 ppm see 29 CFR 1910.1048(c) REL |Long-term value: 0.016 ppm Ceiling limit value: 0.1* ppm *15-min; See Pocket Guide App. A TLV Short-term value: 0.37 mg/m³, 0.3 ppm Long-term value: 0.12 mg/m³, 0.1 ppm DSEN: RSEN 67-56-1 methanol PEL Long-term value: 260 mg/m³, 200 ppm Short-term value: 325 mg/m³, 250 ppm REL Long-term value: 260 mg/m³, 200 ppm Skin TLV Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI Ingredients with biological limit values: 67-56-1 methanol BEI 15 mg/L Medium: urine Time: end of shift 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.

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

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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 Prop	erties
Information on basic physical and che General Information	mical properties
Appearance Form: Color:	Liquid Blue
Odor: Odor threshold:	Pungent, makes eyes water Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 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: Lower: Upper:	Not determined. Not determined.
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density at 20 °C (68 °F): Relative density: Vapour density: Evaporation rate:	0.9875 g/cm ³ (8.24069 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Miscible
Partition coefficient (n-octanol/water) Dynamic: Kinematic: Other information:	: Not determined. Not determined. Not determined. No further relevant information available.

10 Stability and Reactivity

Reactivity: No further relevant information available.

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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:

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: No irritant effect.

On the eye: No 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: 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. 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.

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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.

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

15 Regulatory Information

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

50-00-0 formaldehyde Section 313 (Specific toxic chemical listings): 50-00-0 formaldehyde 67-56-1 methanol TSCA (Toxic Substances Control Act):
50-00-0 formaldehyde 67-56-1 methanol
67-56-1 methanol
TSCA (Toxic Substances Control Act):
ISCA (IVAL Substances Control Act).
All ingredients are listed.
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.

B1

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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

TLV (Threshold Limit Value established by ACGIH)

50-00-0 formaldehyde

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**



Signal word Danger

Hazard-determining components of labeling: formaldehyde Hazard statements May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer. **Precautionary statements** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. 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.

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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

Contact: Phone (800) 860-4073 Date of preparation / last revision 01/29/2018 / -

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) 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 BEI: Biological Exposure Limit Skin Sens. 1: Skin sensitisation - Category 1 Muta. 2: Germ cell mutagenicity - Category 2 Carc. 1A: Carcinogenicity - Category 1A

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