

## Safety Data Sheet

### Methanol

Version 1.1

Revision Date: 04/25/2017

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Methanol  
**Product Use Description:** Industrial chemical  
**Product Code:** 40380-1  
**Manufactured For:** StatLab Medical Products  
**Company Address:** 2090 Commerce Drive  
McKinney, TX 75069  
800-442-3573  
[www.statlab.com](http://www.statlab.com)

**Emergency telephone number:**  
CHEMTREC: 800-424-9300 (USA & Canada)  
CHEMTREC: 703-527-3887 (International)  
Non-Transport 972-436-1010

#### SECTION 2. HAZARDS IDENTIFICATION

##### GHS Classification

Flammable liquids : Category 2  
Acute toxicity (Oral) : Category 3  
Acute toxicity (Inhalation) : Category 3  
Acute toxicity (Dermal) : Category 3  
Carcinogenicity : Category 2  
Reproductive toxicity : Category 2  
Specific target organ toxicity - single exposure : Category 1 (Eyes, Central nervous system)




##### GHS Label element

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- Hazard pictograms :   
- Signal word : Danger
- Hazard statements : H225 Highly flammable liquid and vapor.  
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H371 May cause damage to organs.
- Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.  
P281 Use personal protective equipment as required.  
**Response:**  
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician.  
P307 + P311 IF EXPOSED: Call a POISON CENTER or doctor/ physician.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical

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or alcohol-resistant foam for extinction.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Potential Health Effects

**Carcinogenicity:**

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### Emergency Overview

|                |                           |
|----------------|---------------------------|
| Appearance     | liquid                    |
| Color          | colorless, clear          |
| Odor           | mild, alcohol-like        |
| Hazard Summary | No information available. |

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Pure substance

**Hazardous components**

| CAS-No. | Chemical Name | Concentration (%) |
|---------|---------------|-------------------|
| 67-56-1 | Methanol      | 90 - 100          |

**Molecular formula** : C-H4-O

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#### SECTION 4. FIRST AID MEASURES

|                         |   |
|-------------------------|---|
| General advice          | : Move out of dangerous area.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.  |
| If inhaled              | : If unconscious place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.  |
| In case of skin contact | : If on skin, rinse well with water.<br>If on clothes, remove clothes.  |
| In case of eye contact  | : Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.                                   |
| If swallowed            | : Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |

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#### SECTION 5. FIREFIGHTING MEASURES

|                                      |   |
|--------------------------------------|---|
| Suitable extinguishing media         | : Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical |
| Unsuitable extinguishing media       | : High volume water jet   |
| Specific hazards during firefighting | : Do not allow run-off from fire fighting to enter drains or water courses.   |
| Hazardous combustion products        | : No hazardous combustion products are known                                  |
| Specific extinguishing methods       | : Use a water spray to cool fully closed containers.                          |

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- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for fire-fighting if necessary.

#### **NFPA Flammable and Combustible Liquids Classification:**

Flammable Liquid Class IB

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges.

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Provide sufficient air exchange and/or exhaust in work rooms.

Container may be opened only under exhaust ventilation hood.

Open drum carefully as content may be under pressure.

Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage

: No smoking.  
 Keep container tightly closed in a dry and well-ventilated place.  
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
 Observe label precautions.  
 Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| CAS-No. | Components | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis     |
|---------|------------|-------------------------------|--|-----------|
| 67-56-1 | Methanol   | TWA                           | 200 ppm  | ACGIH     |
|         |            | STEL                          | 250 ppm  | ACGIH     |
|         |            | TWA                           | 200 ppm<br>260 mg/m <sup>3</sup>               | NIOSH REL |
|         |            | ST                            | 250 ppm<br>325 mg/m <sup>3</sup>               | NIOSH REL |
|         |            | TWA                           | 200 ppm<br>260 mg/m <sup>3</sup>               | OSHA Z-1  |
|         |            | STEL                          | 250 ppm<br>325 mg/m <sup>3</sup>               | OSHA P0   |
|         |            | TWA                           | 200 ppm<br>260 mg/m <sup>3</sup>               | OSHA P0   |

### Biological occupational exposure limits

| Components | CAS-No. | Control parameters | Biological specimen | Sampling time                      | Permissible concentration | Basis        |
|------------|---------|--------------------|---------------------|------------------------------------|---------------------------|--------------|
| Methanol   | 67-56-1 | Methanol           | Urine               | End of shift (As soon as possible) | 15 mg/l                   | ACGIH<br>BEI |

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|  |  |  |  |                        |  |  |
|--|--|--|--|------------------------|--|--|
|  |  |  |  | after exposure ceases) |  |  |
|--|--|--|--|------------------------|--|--|

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

In the case of vapor formation use a respirator with an approved filter.

Hand protection  
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Avoid contact with skin, eyes and clothing.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and immediately after handling the product.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless, clear

Odor : mild, alcohol-like

Odor Threshold : 4.2 - 8940 ppm

pH : No data available

Freezing Point (Melting point/freezing point) : -97.8 °C (-144.0 °F)

Boiling Point (Boiling point/boiling range) : 64 °C (147 °F)

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|  |   |
|--|---|
| Flash point                                | : 11 °C (52 °F)                                 |
| Evaporation rate                           | : 5.9   |
| Flammability (solid, gas)                  | : n-Butyl Acetate<br>No data available          |
| Burning rate                               | : No data available                             |
| Upper explosion limit                      | : 36.5 %(V)                                     |
| Lower explosion limit                      | : 6 %(V)  |
| Vapor pressure Relative                    | : 96 mmHg @ 20 °C (68 °F)                       |
| vapor density                              | : 1.01 @ 15 - 20 °C (59 - 68 °F)<br>AIR=1       |
| Relative density                           | : 0.791 - 0.793Reference substance: (water = 1) |
| Density                                    | : No data available                             |
| Bulk density                               | : No data available                             |
| Solubility(ies)                            |   |
| Water solubility                           | : completely soluble                            |
| Solubility in other sol-<br>vents          | : soluble<br>Solvent: Benzene                   |
|  | soluble<br>Solvent: Alcohol                     |
|  | soluble<br>Solvent: Chloroform                  |
| Partition coefficient: n-<br>octanol/water | : log Pow: -0.82 - -0.66                        |
| Auto-ignition temperature                  | : No data available                             |
| Thermal decomposition                      | : No data available                             |

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#### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of



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normal use.

- Chemical stability : Stable under normal conditions.
- Possibility of hazardous reactions : Vapors may form explosive mixture with air.
- Conditions to avoid : Heat, flames and sparks.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Components:

##### **67-56-1:**

- Acute oral toxicity : LD50 (rat): 100 mg/kg  
Assessment: The component/mixture is toxic after single ingestion.
- Acute inhalation toxicity : LC50 (rat): 5 mg/l  
Assessment: The component/mixture is toxic after short term inhalation.
- Acute dermal toxicity : LD50 (rabbit): 300 mg/kg  
Assessment: The component/mixture is toxic after single contact with skin.

### Skin corrosion/irritation

#### Components:

##### **67-56-1:**

Species: rabbit  
Result: No skin irritation

### Serious eye damage/eye irritation

#### Components:

##### **67-56-1:**

Species: rabbit  
Result: No eye irritation

### Respiratory or skin sensitisation

#### Components:

##### **67-56-1:**

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Test Type: Maximisation Test (GPMT)  
Species: guinea pig  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.

#### Germ cell mutagenicity

##### Components:

###### **67-56-1:**

Genotoxicity in vitro : Test Type: DNA damage and/or repair  
Metabolic activation: with and without metabolic activation  
Result: Ambiguous

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: mouse (male and female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal  
Exposure time: Single  
Dose: 0, 1920, 3200, 4480 mg/kg  
Result: negative

Germ cell mutagenicity-Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

#### Carcinogenicity

##### Components:

###### **67-56-1:**

Carcinogenicity - Assessment : Suspected human carcinogens

#### Reproductive toxicity

##### Components:

###### **67-56-1:**

Effects on fertility : Test Type: Two-generation study  
Species: rat, male and female  
Application Route: Inhalation  
Dose: 0, 0.013, 0.13, 1.3 mg/L  
Duration of Single Treatment: 20 h  
General Toxicity - Parent: NOAEC: 1.3 mg/l  
General Toxicity F1: NOAEC: 0.13 mg/l  
Fertility: NOAEC: 1.3 mg/l  
Symptoms: Effects on postnatal development.  
Result: Animal testing did not show any effects on fertility.

Effects on foetal devel- : Species: rat

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opment

Application Route: inhalation (vapor)  
 Dose: 0, 6.65, 13.3, 26.6 mg/L  
 Duration of Single Treatment: 20 d  
 Frequency of Treatment: 7 hr/day  
 General Toxicity Maternal: NOAEC: 13.3 mg/L  
 Teratogenicity: NOAEC: 6.65 mg/L  
 Result: Teratogenic effects.

 Reproductive toxicity -  
 Assessment

: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

#### STOT - single exposure

**Product:** No data available

**Components:**

67-56-1:

| Exposure routes: | Target Organs:               | Assessment:  | Remarks: |
|------------------|------------------------------|--|----------|
|                  | Eyes, Central nervous system | Causes damage to organs., The substance or mixture is classified as specific target organ toxicant, single exposure, category 1. |          |

#### STOT - repeated exposure

**Product:** No data available

**Components:**

**67-56-1:** No data available

#### Repeated dose toxicity

**Components:**

**67-56-1:**

Species: mouse, male and female  
 NOAEL: 1.3 mg/l  
 Application Route: Inhalation  
 Exposure time: 12 mths  
 Number of exposures: Continuous  
 Dose: 0, 0.013, 0.13, 1.3 mg/L

#### Aspiration toxicity

#### Further information

**Product:**

Remarks: Solvents may degrease the skin.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **67-56-1:**

|   |   |
|---|---|
| Toxicity to fish                                    | : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l<br>Exposure time: 96 h<br>Test Type: flow-through test   |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l<br>Exposure time: 48 h<br>Test Type: static test   |
| Toxicity to algae                                   | : EC50 (Scenedesmus capricornutum (fresh water algae)): 22,000 mg/l<br>End point: Growth rate<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 201 |
| Toxicity to bacteria                                | : IC50 (activated sludge): > 1,000 mg/l<br>End point: Growth rate<br>Exposure time: 3 h<br>Test Type: Static<br>Method: OECD Test Guideline 209                                   |

### Persistence and degradability

#### Components:

##### **67-56-1:**

|                                 |   |
|---------------------------------|---|
| Biodegradability                | : aerobic<br>Result: Readily biodegradable.<br>Biodegradation: 72 %<br>Remarks: Readily biodegradable |
| Biochemical Oxygen Demand (BOD) | : 600 - 1,120 mg/g  |
| Chemical Oxygen Demand (COD)    | : 1,420 mg/g  |
| BOD/COD                         | : BOD: 600 - 1120COD: 1420  |

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Stability in water : Hydrolysis: 91 % at 19 °C (72 h)  
Remarks: Hydrolyses on contact with water.  
Hydrolyses readily.

#### Bioaccumulative potential

##### Components:

##### **67-56-1:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 1.0  
Exposure time: 72 d  
Temperature: 20 °C  
Concentration: 5 mg/l  
Remarks: This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Partition coefficient: n-octanol/water : log Pow: -0.77

#### Mobility in soil

No data available

#### Other adverse effects

No data available

#### Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

Additional ecological information : No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.



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Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

#### SECTION 14. TRANSPORT INFORMATION

**IATA (International Air Transport Association):** UN1230, METHANOL, 3 (6.1), II,  
Flash Point: 11 °C (52 °F)

**IMDG (International Maritime Dangerous Goods):** UN1230, METHANOL, 3, (6.1), II

**DOT (Department of Transportation):** UN1230, Methanol, 3, II

#### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : Flammable liquid, Toxic by ingestion, Toxic by skin absorption, Carcinogen, Teratogen, Reproductive hazard

**WHMIS Classification** : B2: Flammable liquid  
D1B: Toxic Material Causing Immediate and Serious Toxic Effects  
D2A: Very Toxic Material Causing Other Toxic Effects

#### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|------------|---------|--------------------|-----------------------------|
| Methanol   | 67-56-1 | 5000               | 5000                        |

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#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 311/312 Hazards

: Fire Hazard  
 Acute Health Hazard  
 Chronic Health Hazard

#### SARA 302

: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313

: The following components are subject to reporting levels established by SARA Title III, Section 313:

|         |          |       |
|---------|----------|-------|
| 67-56-1 | Methanol | 100 % |
|---------|----------|-------|

#### Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

|         |          |       |
|---------|----------|-------|
| 67-56-1 | Methanol | 100 % |
|---------|----------|-------|

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

|         |          |       |
|---------|----------|-------|
| 67-56-1 | Methanol | 100 % |
|---------|----------|-------|

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean-Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### US State Regulations

##### Massachusetts Right To Know

|         |          |            |
|---------|----------|------------|
| 67-56-1 | Methanol | 90 - 100 % |
|---------|----------|------------|

##### Pennsylvania Right To Know

|         |          |            |
|---------|----------|------------|
| 67-56-1 | Methanol | 90 - 100 % |
|---------|----------|------------|

##### New Jersey Right To Know

|         |          |            |
|---------|----------|------------|
| 67-56-1 | Methanol | 90 - 100 % |
|---------|----------|------------|

##### California Prop 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

|         |          |
|---------|----------|
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|---------|----------|

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**The components of this product are reported in the following inventories:**

|   |   |   |
|---|---|---|
| <b>1907/2006 (EU)</b>   | : | n (Negative listing)<br>(Not in compliance with the inventory)                              |
| <b>Switzerland. New notified substances and declared preparations</b>     | : | y (positive listing)<br>(The formulation contains substances listed on the Swiss Inventory) |
| <b>United States TSCA Inventory</b>                                       | : | y (positive listing)<br>(On TSCA Inventory)   |
| <b>Canadian Domestic Substances List (DSL)</b>                            | : | y (positive listing)<br>(All components of this product are on the Canadian DSL.)           |
| <b>Australia Inventory of Chemical Substances (AICS)</b>                  | : | y (positive listing)<br>(On the inventory, or in compliance with the inventory)             |
| <b>New Zealand. Inventory of Chemical Substances</b>                      | : | y (positive listing)<br>(On the inventory, or in compliance with the inventory)             |
| <b>Japan. ENCS - Existing and New Chemical Substances Inventory</b>       | : | y (positive listing)<br>(On the inventory, or in compliance with the inventory)             |
| <b>Japan. ISHL - Inventory of Chemical Substances (METI)</b>              | : | y (positive listing)<br>(On the inventory, or in compliance with the inventory)             |
| <b>Korea. Korean Existing Chemicals Inventory (KECI)</b>                  | : | y (positive listing)<br>(On the inventory, or in compliance with the inventory)             |
| <b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b> | : | y (positive listing)<br>(On the inventory, or in compliance with the inventory)             |



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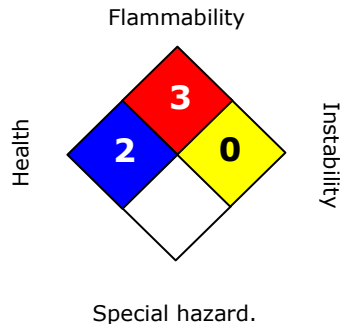
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|  |   |
|--|---|
| <b>China. Inventory of Existing Chemical Substances in China (IECSC)</b> | : y (positive listing)<br>(On the inventory,<br>or in compliance<br>with the inventory) |
|--|---|

### SECTION 16. OTHER INFORMATION

#### Further information

#### NFPA:



#### HMIS III:

|                        |           |
|------------------------|-----------|
| <b>HEALTH</b>          | <b>2*</b> |
| <b>FLAMMABILITY</b>    | <b>3</b>  |
| <b>PHYSICAL HAZARD</b> | <b>0</b>  |

0 = not significant, 1 =Slight,  
 2 = Moderate, 3 = High  
 4 =Extreme, \* = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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| <b>Key or legend to abbreviations and acronyms used in the safety data sheet</b> |  |       |  |
|--|--|-------|--|
| ACGIH  | American Conference of Government Industrial Hygienists  | LD50  | Lethal Dose 50%  |
| AICS   | Australia, Inventory of Chemical Substances              | LOAEL | Lowest Observed Adverse Effect Level   |
| DSL  | Canada, Domestic Substances List                         | NFPA  | National Fire Protection Agency  |
| NDSL   | Canada, Non-Domestic Substances List                     | NIOSH | National Institute for Occupational Safety & Health                                  |
| CNS  | Central Nervous System                                   | NTP   | National Toxicology Program  |
| CAS  | Chemical Abstract Service                                | NZIoC | New Zealand Inventory of Chemicals   |
| EC50   | Effective Concentration                                  | NOAEL | No Observable Adverse Effect Level   |
| EC50   | Effective Concentration 50%                              | NOEC  | No Observed Effect Concentration   |
| EGEST  | EOSCA Generic Exposure Scenario Tool                     | OSHA  | Occupational Safety & Health Administration  |
| EOSCA  | European Oilfield Specialty Chemicals Association        | PEL   | Permissible Exposure Limit   |
| EINECS   | European Inventory of Existing Chemical Substances       | PICCS | Philippines Inventory of Commercial Chemical Substances                              |
| MAK  | Germany Maximum Concentration Values                     | PRNT  | Presumed Not Toxic   |
| GHS  | Globally Harmonized System                               | RCRA  | Resource Conservation Recovery Act   |
| >=   | Greater Than or Equal To                                 | STEL  | Short-term Exposure Limit  |
| IC50   | Inhibition Concentration 50%                             | SARA  | Superfund Amendments and Reauthorization Act.  |
| IARC   | International Agency for Research on Cancer              | TLV   | Threshold Limit Value  |
| IECSC  | Inventory of Existing Chemical Substances in China       | TWA   | Time Weighted Average  |
| ENCS   | Japan, Inventory of Existing and New Chemical Substances | TSCA  | Toxic Substance Control Act  |
| KECI   | Korea, Existing Chemical Inventory                       | UVCB  | Unknown or Variable Composition, Complex Reaction Products, and Biological Materials |
| <=   | Less Than or Equal To                                    | WHMIS | Workplace Hazardous Materials Information System                                     |
| LC50   |  |       | Lethal Concentration 50%   |