

Safety Data Sheet SIT8566.0 Date of issue: 01/13/2015 Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier**

Product form : Substance Physical state : Liquid

Substance name : TRIMETHYLMETHOXYSILANE

Product code SIT8566.0 Formula : C4H12OSi

Synonyms : METHOXYTRIMETHYLSILANE : ORGANOMETHOXYSILANE Chemical family

#### Relevant identified uses of the substance or mixture and uses advised against

: Chemical intermediate Use of the substance/mixture

For research and industrial use only

#### Details of the supplier of the safety data sheet

#### **GELEST, INC.**

11 East Steel Road Morrisville, PA 19067

USA

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

info@gelest.com - www.gelest.com

#### **Emergency telephone number**

**Emergency number** : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

#### Classification (GHS-US)

Flam. Liq. 2 H225 Eye Irrit. 2A H319

Full text of H-phrases: see section 16

#### Label elements 2.2.

#### **GHS-US** labeling

Hazard pictograms (GHS-US)





GHS02

GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P280 - Wear protective gloves/protective clothing/eye protection/face protection

P264 - Wash hands thoroughly after handling

P210 - Keep away from heat, open flames, sparks. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P370+P378 - In case of fire: Use water spray or fog, foam, carbon dioxide, dry chemical to extinguish

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P337+P313 - If eye irritation persists: Get medical advice/attention

P403+P235 - Keep in a cool place

P501 - Dispose of contents/container to licensed waste disposal facility.

#### Other hazards

No additional information available

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#### **Unknown acute toxicity (GHS-US)**

No data available

### **SECTION 3: Composition/information on ingredients**

#### **Substance**

Substance type : Mono-constituent

Name : TRIMETHYLMETHOXYSILANE

CAS No 1825-61-2 EC no : 217-369-0

| Name                   | Product identifier | %    | Classification (GHS-US)  |
|------------------------|--------------------|------|--|
| Methoxytrimethylsilane | (CAS No) 1825-61-2 | > 95 | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319  |
| Methanol               | (CAS No) 67-56-1   |      | Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 1, H370 STOT SE 3, H336 |

#### 3.2. **Mixture**

Not applicable

### **SECTION 4: First aid measures**

#### **Description of first aid measures**

First-aid measures general Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek

medical advice immediately (show the label where possible). If possible show this sheet; if not

available show packaging or label.

First-aid measures after inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel

unwell, seek medical advice.

First-aid measures after skin contact Wash with plenty of soap and water.

First-aid measures after eye contact Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion Never give anything by mouth to an unconscious person. Get medical advice/attention.

#### Most important symptoms and effects, both acute and delayed

: May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Symptoms/injuries after inhalation

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : Causes serious eye irritation.

Oral toxicity is associated with methanol, the solvent and a hydrolysis product which causes Symptoms/injuries after ingestion

nausea, vomiting, headache, visual effects including blindness.

: On contact with water this compound liberates methanol which is known to have a chronic Chronic symptoms

effect on the central nervous system. Methanol may effect the central nervous system resulting

in persistent or recurring headaches or impaired vision.

#### Indication of any immediate medical attention and special treatment needed

NOTE TO PHYSICIAN: This product reacts with water in the acid contents of the stomach to form methanol. The combination of visual disturbances, metabolic acidosis and formic acid in urine is evidence of methanol poisoning. The therapeutic intravenous administration of ethanol (10 mls/hour) allows methanol to be preferentially oxidized and reduces production of methanol metabolites. Acidosis must be treated with intravenous administration of sodium bicarbonate and methanol elimination may be increased by hemodialysis, as indicated. Treatment should be based on blood methanol levels and acid-base balance.

### **SECTION 5: Firefighting measures**

#### **Extinguishing media**

Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

### Advice for firefighters

Firefighting instructions : Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.

: Do not enter fire area without proper protective equipment, including respiratory protection. Protection during firefighting

Avoid all eye and skin contact and do not breathe vapor and mist.

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#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : With adequate eye protection, absorb material and transfer to a suitable container for

hydrolysis and disposal. Use only non-sparking tools.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapor and mist. Provide good ventilation in process area to prevent accumulation of vapors. Containers must be properly grounded before

beginning transfer. Take precautionary measures against static discharge. Use only nonsparking tools.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible materials : Acids. Peroxides. Oxidizing agent. Moisture. Water. Storage area : Store in a well-ventilated place. Store away from heat.

#### 7.3. Specific end use(s)

No additional information available

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Methanol (67-56-1) |                          |           |
|--------------------|--------------------------|-----------|
| USA ACGIH          | ACGIH TWA (ppm)          | 200 ppm   |
| USA ACGIH          | ACGIH STEL (ppm)         | 250 ppm   |
| USA NIOSH          | NIOSH REL (TWA) (mg/m³)  | 260 mg/m³ |
| USA NIOSH          | NIOSH REL (TWA) (ppm)    | 200 ppm   |
| USA NIOSH          | NIOSH REL (STEL) (mg/m³) | 325 mg/m³ |
| USA NIOSH          | NIOSH REL (STEL) (ppm)   | 250 ppm   |
| USA OSHA           | OSHA PEL (TWA) (mg/m³)   | 260 mg/m³ |
| USA OSHA           | OSHA PEL (TWA) (ppm)     | 200 ppm   |
| USA IDLH           | US IDLH (ppm)            | 6000 ppm  |

#### 8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure.

Hand protection : Neoprene or nitrile rubber gloves.

Eye protection : Chemical goggles. Contact lenses should not be worn.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : NIOSH-certified organic vapor (black cartridge) respirator. Where exposure through inhalation

may occur from use, respiratory protection equipment is recommended.

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### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state: LiquidAppearance: Clear liquid.Molecular mass: 104.22 g/molColor: Straw.

Odor : Mild. Pleasant.
Odor threshold : No data available

Refractive index : 1.3678

pH : No data available

Relative evaporation rate (butyl acetate=1) : > 1

Melting point : No data available

Freezing point :  $< -40 \, ^{\circ}\text{C}$ Boiling point :  $57 - 58 \, ^{\circ}\text{C}$ Flash point :  $-11 \, ^{\circ}\text{C}$ 

Auto-ignition temperature : No data available Decomposition temperature : No data available

Flammability (solid, gas) : Highly flammable liquid and vapor

Vapor pressure : > 100 mm Hg @ 25°C

Relative vapor density at 20 °C : > 1Relative density : 0.756VOC content : 100 %

Solubility : Reacts with water. No data available Log Pow Log Kow No data available No data available Viscosity, kinematic Viscosity, dynamic No data available Explosive properties No data available Oxidizing properties No data available Explosive limits ≥ 1.4 vol % (LEL)

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable when stored in sealed containers.

#### 10.3. Possibility of hazardous reactions

Reacts with water and moisture in air, liberating methanol.

### 10.4. Conditions to avoid

Heat. Sparks. Open flame.

### 10.5. Incompatible materials

Acids. Peroxides. Oxidizing agent. Moisture. Water.

### 10.6. Hazardous decomposition products

Methanol. Organic acid vapors. Silicon dioxide.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Methanol (67-56-1)        |                                |  |
|---------------------------|--------------------------------|--|
| LD50 oral rat             | 6200 mg/kg                     |  |
| LD50 dermal rabbit        | 20 g/kg                        |  |
| LC50 inhalation rat (ppm) | 22500 ppm (Exposure time: 8 h) |  |
| ATE US (oral)             | 100.000 mg/kg body weight      |  |
| ATE US (dermal)           | 300.000 mg/kg body weight      |  |

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| Methanol (67-56-1)                                 |   |
|--|---|
| ATE US (vapors)                                    | 3.000 mg/l/4h   |
| Skin corrosion/irritation                          | : Not classified  |
| Serious eye damage/irritation                      | : Causes serious eye irritation.  |
| Respiratory or skin sensitization                  | : Not classified  |
| Germ cell mutagenicity                             | : Not classified  |
| Carcinogenicity                                    | : Not classified  |
| Reproductive toxicity                              | : Not classified  |
| Specific target organ toxicity (single exposure)   | : Not classified  |
| Specific target organ toxicity (repeated exposure) | : Not classified  |
| Aspiration hazard                                  | : Not classified  |
| Symptoms/injuries after inhalation                 | : May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.  |
| Symptoms/injuries after skin contact               | : May cause skin irritation.  |
| Symptoms/injuries after eye contact                | : Causes serious eye irritation.  |
| Symptoms/injuries after ingestion                  | : Oral toxicity is associated with methanol, the solvent and a hydrolysis product which causes nausea, vomiting, headache, visual effects including blindness.  |
| Chronic symptoms                                   | : On contact with water this compound liberates methanol which is known to have a chronic effect on the central nervous system. Methanol may effect the central nervous system resulting in persistent or recurring headaches or impaired vision. |

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

| Methanol (67-56-1) |  |
|--------------------|--|
| LC50 fish 1        | 28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 fish 2        | > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])       |

### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

| Methanol (67-56-1) |       |
|--------------------|-------|
| BCF fish 1         | < 10  |
| Log Pow            | -0.77 |

## 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other adverse effects : This substance may be hazardous to the environment.

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : May be incinerated. Dispose in a safe manner in accordance with local/national regulations.

Dispose of contents/container to licensed waste disposal facility.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

#### **SECTION 14: Transport information**

#### 14.1. UN number

UN-No.(DOT) : 1993 DOT NA no. UN1993

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Flammable liquids, n.o.s.

(TRIMETHYLMETHOXYSILANE)

Department of Transportation (DOT) Hazard : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Classes

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Hazard labels (DOT) : 3 - Flammable liquid



DOT Symbols : G - Identifies PSN requiring a technical name

Packing group (DOT) : II - Medium Danger

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242

#### 14.3. Additional information

Other information : No supplementary information available.

#### Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

#### Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

### Methanol (67-56-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting 1.0 %

#### Methoxytrimethylsilane (1825-61-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### Methanol (67-56-1)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Sustances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Poisonous and Deleterious Substances Control Law

Listed on the Canadian IDL (Ingredient Disclosure List)

#### Methoxytrimethylsilane (1825-61-2)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

#### 15.3. US State regulations

| TRIMETHYLMETHOXYSILANE(1825-61-2)                                |    |  |
|--|----|--|
| U.S California - Proposition 65 - Carcinogens List               | No |  |
| U.S California - Proposition 65 - Developmental Toxicity         | No |  |
| U.S California - Proposition 65 - Reproductive Toxicity - Female | No |  |
| U.S California - Proposition 65 - Reproductive                   | No |  |

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| Toxicity - Male  |  |   |   |  |
|--|--|---|---|--|
| Methanol (67-56-1)                                       |  |   |   |  |
| U.S California -<br>Proposition 65 -<br>Carcinogens List | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significance risk leve<br>(NSRL)              |
| No   | Yes  | No  | No  |  |
| Methoxytrimethylsilan                                    | e (1825-61-2)  | +   | <u> </u>  | <del>-                                    </del> |
| U.S California -<br>Proposition 65 -<br>Carcinogens List | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significance risk leve<br>(NSRL)              |
| No   | No   | No  | No  |  |

- U.S. California Proposition 65 Maximum Allowable Dose Levels (MADL)
- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Acute
- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Chronic
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Colorado Hazardous Wastes Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Connecticut Volatile Substances
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Illinois Toxic Air Contaminants
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Maine Air Pollutants Hazardous Air Pollutants
- U.S. Maine Chemicals of High Concern
- U.S. Massachusetts Allowable Ambient Limits (AALs)
- U.S. Massachusetts Allowable Threshold Concentrations (ATCs)
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- U.S. Massachusetts Right To Know List
- U.S. Massachusetts Threshold Effects Exposure Limits (TELs) U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits Skin Designations
- U.S. Michigan Occupational Exposure Limits STELs
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Michigan Polluting Materials List
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Groundwater Health Risk Limits
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits Skin Designations
- U.S. Minnesota Permissible Exposure Limits STELs
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Environmental Hazardous Substances List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New Jersey Water Quality Ground Water Quality Criteria U.S. New Jersey Water Quality Practical Quantitation Levels (PQLs)
- U.S. New York Occupational Exposure Limits Skin Designations
- U.S. New York Occupational Exposure Limits TWAs
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. North Dakota Hazardous Wastes Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 1-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels Annual
- U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
- U.S. South Carolina Toxic Air Pollutants Pollutant Categories

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#### Methanol (67-56-1)

U.S. - Tennessee - Occupational Exposure Limits - Skin Designations

U.S. - Tennessee - Occupational Exposure Limits - STELs

U.S. - Tennessee - Occupational Exposure Limits - TWAs

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

U.S. - Vermont - Permissible Exposure Limits - Skin Designations

U.S. - Vermont - Permissible Exposure Limits - STELs

U.S. - Vermont - Permissible Exposure Limits - TWAs

U.S. - Washington - Dangerous Waste - Discarded Chemical Products List

U.S. - Washington - Permissible Exposure Limits - Skin Designations

U.S. - Washington - Permissible Exposure Limits - STELs

U.S. - Washington - Permissible Exposure Limits - TWAs

### **SECTION 16: Other information**

Abbreviations and acronyms

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

#### Full text of H-phrases::

| ext of 11-philases               |  |   |
|----------------------------------|--|---|
| Acute Tox. 3 (Dermal)            |  | Acute toxicity (dermal) Category 3                          |
| Acute Tox. 3 (Inhalation:vapour) |  | Acute toxicity (inhalation:vapor) Category 3                |
| Acute Tox. 3 (Oral)              |  | Acute toxicity (oral) Category 3                            |
| Eye Dam. 1                       |  | Serious eye damage/eye irritation Category 1                |
| Eye Irrit. 2A                    |  | Serious eye damage/eye irritation Category 2A               |
| Flam. Liq. 2                     |  | Flammable liquids Category 2                                |
| Skin Irrit. 2                    |  | Skin corrosion/irritation Category 2                        |
| STOT SE 1                        |  | Specific target organ toxicity (single exposure) Category 1 |
| STOT SE 3                        |  | Specific target organ toxicity (single exposure) Category 3 |
| H225                             |  | Highly flammable liquid and vapor                           |
| H301                             |  | Toxic if swallowed  |
| H311                             |  | Toxic in contact with skin                                  |
| H315                             |  | Causes skin irritation                                      |
| H318                             |  | Causes serious eye damage                                   |
| H319                             |  | Causes serious eye irritation                               |
| H331                             |  | Toxic if inhaled  |
| H336                             |  | May cause drowsiness or dizziness                           |
| H370                             |  | Causes damage to organs                                     |
|                                  |  | ·   |

#### **HMIS III Rating**

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 4 Severe Hazard
Physical : 1 Slight Hazard

Prepared by safety and environmental affairs.

Date of issue: 01/13/2015 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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