

Safety Data Sheet SIA0146.0 Date of issue: 04/09/2015 Version: 1.0

| Enabling Your Technology   |   |
|--|---|
| <b>SECTION 1: Identification of the s</b>  | ubstance/mixture and of the company/undertaking   |
| 1.1. Product identifier  |   |
| Product form   | : Substance   |
| Physical state   | : Liquid  |
| Substance name   | : 3-ACRYLAMIDOPROPYLTRIMETHOXYSILANE, tech-95   |
| Product code   | : SIA0146.0   |
| Formula  | : C9H19NO4Si  |
| Synonyms   | : 3-(TRIMETHOXYSILYL)PROPYLACRYLAMIDE   |
| Chemical family  | : ORGANOMETHOXYSILANE   |
|  | bstance or mixture and uses advised against   |
| Use of the substance/mixture   | : Chemical intermediate<br>For research use only  |
| 1.3. Details of the supplier of the safe   | ty data sheet   |
| GELEST, INC.   |   |
| 11 East Steel Road<br>Morrisville, PA 19067                                      |   |
| USA  |   |
| T 215-547-1015 - F 215-547-2484 - (M-F): 8:0<br>info@gelest.com - www.gelest.com | 00 AM - 5:30 PM EST   |
| 1.4. Emergency telephone number  |   |
| Emergency number   | : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)   |
| <b>SECTION 2: Hazards identification</b>   |   |
| 2.1. Classification of the substance of  | r mixture   |
| Classification (GHS-US)  |   |
| Eye Irrit. 2A H319   |   |
| Full text of H-phrases: see section 16   |   |
|  |   |
| 2.2. Label elements  |   |
|  |   |
| GHS-US labeling  |   |
| Hazard pictograms (GHS-US)   |   |
|  |   |
|  | •   |
|  |   |
|  | GHS07   |
| Signal word (GHS-US)   | : Warning   |
| Hazard statements (GHS-US)   | : H319 - Causes serious eye irritation  |
| Precautionary statements (GHS-US)  | : P280 - Wear protective gloves/protective clothing/eye protection/face protection<br>P264 - Wash hands thoroughly after handling   |
|  | P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove  |
|  | contact lenses, if present and easy to do. Continue rinsing<br>P337+P313 - If eye irritation persists: Get medical advice/attention |
| 2.3. Other hazards   |   |
| No additional information available  |   |
| 2.4. Unknown acute toxicity (GHS-US  |   |
| No data available  |   |
| SECTION 3: Composition/information   | ion on ingredients  |
| 3.1. Substance   |   |
| Substance type   | : Mono-constituent  |
| Name   | : 3-ACRYLAMIDOPROPYLTRIMETHOXYSILANE, tech-95   |
| CAS No   | : 57577-96-5  |
| Name   | Product identifier % Classification (GHS-US)  |
| 3-Acrylamidopropyltrimethoxysilane   | (CAS No) 57577-96-5 > 90 Eye Irrit. 2A, H319  |
|  |   |
| 04/00/0045   |   |

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| Name         | Product identifier | %      | Classification (GHS-US)  |
|--------------|--------------------|--------|--|
| Hydroquinone | (CAS №) 123-31-9   | < 0.05 | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Muta. 2, H341<br>Aquatic Acute 1, H400  |
| Methanol     | (CAS No) 67-56-1   |        | Flam. Liq. 2, H225<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation:vapour),<br>H331<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 1, H370<br>STOT SE 3, H336 |

| 3.2. Mixture                           |  |
|--|--|
| Not applicable                         |  |
| SECTION 4: First aid measures          |  |
| 4.1. 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.   |
| 4.2. Most important symptoms and effe  | cts, both acute and delayed  |
| Symptoms/injuries after inhalation     | : May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache.<br>Nausea.  |
| Symptoms/injuries after skin contact   | : May cause skin irritation. Acrylates can have a sensitizing effect.  |
| 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.  |

#### 4.3. 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.

| <b>SECTION 5: Firefigh</b>    | nting measures  |
|-------------------------------|---|
| 5.1. Extinguishing r          | nedia   |
| Suitable extinguishing med    | dia : Water spray. Foam. Carbon dioxide. Dry chemical.  |
| 5.2. Special hazards          | s arising from the substance or mixture   |
| Fire hazard                   | : Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.   |
| 5.3. Advice for firef         | ighters   |
| Firefighting instructions     | : Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.   |
| Protection during firefightir | ng : Do not enter fire area without proper protective equipment, including respiratory protection.<br>Avoid all eye and skin contact and do not breathe vapor and mist. |
| SECTION 6: Accide             | ntal release measures   |
| 6.1. Personal preca           | utions, protective equipment and emergency procedures   |

|         |                             | Jul-1  |  |
|---------|-----------------------------|--|--|
| 6.1.1.  | For non-emergency personnel |  |  |
| Emerc   | ency procedures             | : Evacuate unnecessary personnel.            |  |
|         |                             | · _·····                                     |  |
| 6.1.2.  | For emergency responders    |  |  |
| Protec  | tive equipment              | : Equip cleanup crew with proper protection. |  |
| 1 10100 |                             |  |  |
|         |                             |  |  |

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| .2. Environmental pre                                       | ecautions  |  |
|---|--|--|
| revent entry to sewers and p                                | public waters. Notify authorities if liquid enters s | sewers or public waters.   |
| .3. Methods and mate  | erial for containment and cleaning up                |  |
| lethods for cleaning up                                     |  | oon as possible, using an absorbent material to collect it. Sweep or riate container for disposal.                   |
| 4. Reference to othe  | r sections   |  |
| ee Heading 8. Exposure cor                                  | ntrols and personal protection.                      |  |
| ECTION 7: Handling  | and storage  |  |
| .1. Precautions for sa                                      | ife handling   |  |
| recautions for safe handling                                | process area to prevent                              | ontact and do not breathe vapor and mist. Provide good ventilation in accumulation of vapors.                        |
| ygiene measures   |  | exposed areas with mild soap and water before eating, drinking or ing work. Wash contaminated clothing before reuse. |
| .2. Conditions for saf                                      | e storage, including any incompatibilities           |  |
| torage conditions   | 1 0 1  | losed. Store in sealed containers in the dark at 0-5°C.  |
| compatible materials  | : Moisture. Water.                                   |  |
| torage area   | : Store in a well-ventilated                         | d place. Store away from heat.   |
| .3. Specific end use(s                                      |  |  |
| o additional information ava                                | ilable   |  |
| ECTION 8: Exposure  | controls/personal protection                         |  |
| .1. Control parameter                                       | 'S   |  |
| Methanol (67-56-1)  |  |  |
| USA ACGIH   | ACGIH TWA (ppm)                                      | 200 ppm  |
| USA ACGIH   | ACGIH STEL (ppm)                                     | 250 ppm  |
| USA NIOSH   | NIOSH REL (TWA) (mg/m <sup>3</sup> )                 | 260 mg/m <sup>3</sup>  |
| USA NIOSH   | NIOSH REL (TWA) (ppm)                                | 200 ppm  |
| USA NIOSH   | NIOSH REL (STEL) (mg/m <sup>3</sup> )                | 325 mg/m <sup>3</sup>  |
| USA NIOSH   | NIOSH REL (STEL) (ppm)                               | 250 ppm  |
| USA OSHA  | OSHA PEL (TWA) (mg/m <sup>3</sup> )                  | 260 mg/m <sup>3</sup>  |
| USA OSHA  | OSHA PEL (TWA) (ppm)                                 | 200 ppm  |
| USA IDLH  | US IDLH (ppm)  |  |
|   | US IDEH (ppm)  | 6000 ppm   |
| Hydroquinone (123-31-9)<br>USA ACGIH                        | ACGIH TWA (mg/m <sup>3</sup> )                       | 1 mg/m <sup>3</sup>  |
| USA NIOSH   | NIOSH REL (ceiling) (mg/m <sup>3</sup> )             |  |
|   |  | 2 mg/m <sup>3</sup>  |
| USA OSHA  | OSHA PEL (TWA) (mg/m <sup>3</sup> )                  | 2 mg/m <sup>3</sup>  |
| USA IDLH  | US IDLH (mg/m³)                                      | 50 mg/m <sup>3</sup>   |
| 2. Exposure controls  | 5  |  |
| ppropriate engineering conti<br>ersonal protective equipmer |  | -  |
| ersonal protective equipmer                                 |  | xposure. Emergency eye wash fountains and safety showers should<br>ate vicinity of any potential exposure.           |
| and protection  | : Neoprene or nitrile rubb                           | er gloves.   |
| ye protection   | •  | act lenses should not be worn.   |
| kin and body protection                                     | : Wear suitable protective                           |  |
| espiratory protection                                       |  | vapor (black cartridge) respirator.  |

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|   | : 1.465   |
|---|---|
| 1   | : No data available   |
|   | : No data available   |
| Melting point                                       | : No data available   |
| Freezing point                                      | : <0°C  |
| Boiling point                                       | : 150 °C @ 0.5 mm Hg  |
| Flash point   | : >110 °C   |
| Auto-ignition temperature                           | : No data available   |
| Decomposition temperature                           | : No data available   |
| Flammability (solid, gas)                           | : No data available   |
| Vapor pressure                                      | : < 0.1 mm Hg @ 25°C  |
| Relative vapor density at 20 °C                     | : >1  |
| Relative density                                    | : 1.062   |
| -   | : <5%   |
|   | : Insoluble in water. Reacts with water.                            |
| Log Pow   | : No data available   |
| Log Kow   | : No data available   |
| Viscosity, kinematic                                | : No data available   |
| Viscosity, dynamic                                  | : No data available   |
| Explosive properties                                | : No data available   |
|   | : No data available   |
|   |   |
| Explosive limits                                    | : No data available   |
| 9.2. Other information                              |   |
| No additional information available                 |   |
| SECTION 10: Stability and reactivity                |   |
| 10.1. Reactivity                                    |   |
| No additional information available                 |   |
|   |   |
| 10.2. Chemical stability                            |   |
|   | -5°C. Polymerization can occur when stored at elevated temperature. |
| 10.3. Possibility of hazardous reactions            |   |
| Reacts with water and moisture in air, liberating m | ethanol.  |
| 10.4. Conditions to avoid                           |   |
| Heat. Open flame. Sparks.                           |   |
| 10.5. Incompatible materials                        |   |
| Moisture. Water.                                    |   |
|   |   |
| 10.6. Hazardous decomposition products              |   |
| Methanol. Organic acid vapors.                      |   |
| <b>SECTION 11: Toxicological informatic</b>         | on  |
| 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   |
| ATE US (vapors)                                     | 3.000 mg/l/4h   |
| Hydroquinone (123-31-9)                             |   |
| LD50 oral rat                                       | 320 mg/kg   |
| LD50 dermal rabbit                                  | > 2000 mg/kg 24 H   |
| ATE US (oral)                                       | 320.000 mg/kg body weight   |
| Skin corrosion/irritation                           | : Not classified  |
| Serious eye damage/irritation                       | : Causes serious eye irritation.                                    |
| Respiratory or skin sensitization                   | : Not classified  |
| Germ cell mutagenicity                              | : Not classified  |
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| Methanol (67-56-1)                                 |  |
|--|--|
| Carcinogenicity                                    | : Not classified   |
| Hydroquinone (123-31-9)                            |  |
| IARC group   | 3 - Not classifiable   |
| National Toxicology Program (NTP) Status           | 1 - Evidence of Carcinogenicity  |
| 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. Acrylates can have a sensitizing effect.  |
| 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.                                |
| Reason for classification                          | : Expert judgment  |
| 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])   |
| Hydroquinone (123-31-9)                            |  |
| LC50 fish 1  | 0.044 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])   |
| EC50 Daphnia 1                                     | 0.29 mg/l (Exposure time: 48 h - Species: Daphnia magna)   |
| LC50 fish 2  | 0.044 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])   |
| 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 |  |
| Hydroquinone (123-31-9) |       |  |
| BCF fish 1              | 40    |  |
| Log Pow                 | 0.5   |  |
| 12.4. Mobility in soil  |       |  |

No additional information available

#### 12.5. Other adverse effects

| Other adverse effects<br>Effect on ozone layer | <ul> <li>This substance may be hazardous to the environment.</li> <li>No additional information available</li> </ul> |
|--|--|
| Effect on the global warming                   | : No known ecological damage caused by this product.   |
| SECTION 13: Disposal considera                 | tions  |
| 13.1. Waste treatment methods                  |  |
| Waste disposal recommendations                 | : May be incinerated. Dispose in a safe manner in accordance with local/national regulations.                        |
| Ecology - waste materials                      | : Avoid release to the environment.  |

| SECTI     | ON 14: Transport information |   |                   |     |
|-----------|------------------------------|---|-------------------|-----|
| 14.1.     | UN number                    |   |                   |     |
| Not regu  | lated for transport.         |   |                   |     |
| 14.2.     | UN proper shipping name      |   |                   |     |
| Not appl  | icable                       |   |                   |     |
| 14.3. A   | Additional information       |   |                   |     |
| Other inf | ormation                     | : No supplementary information available. |                   |     |
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#### Transport by sea

No additional information available

#### Air transport

No additional information available

| 15.1. US Federal regulations   | n   |  |
|--|---|--|
| 3-ACRYLAMIDOPROPYLTRIMETHOXYSILA   | NE, tech-95 (57577-96-5)  |  |
| TSCA Exemption/Exclusion   | CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States. |  |
| Methanol (67-56-1)   |   |  |
| Listed on the United States TSCA (Toxic Subs<br>Listed on United States SARA Section 313   | stances Control Act) inventory  |  |
| SARA Section 313 - Emission Reporting  | 1.0 %   |  |
| 3-Acrylamidopropyltrimethoxysilane (5757   | 7-96-5)   |  |
| Not listed on the United States TSCA (Toxic S  | ubstances Control Act) inventory  |  |
| Hydroquinone (123-31-9)  |   |  |
| Listed on the United States TSCA (Toxic Subs<br>Listed on the United States SARA Section 302<br>Listed on United States SARA Section 313 |   |  |
| EPA TSCA Regulatory Flag   | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.  |  |
| SARA Section 302 Threshold Planning<br>Quantity (TPQ)  | ≤ 10000   |  |
| SARA Section 313 - Emission Reporting  | 1.0 %   |  |
| 15.2. International regulations  |   |  |
|  |   |  |
|  | nces List)<br>cal Substances Produced or Imported in China)<br>an Inventory of Existing Commercial Chemical Substances)<br>w Chemical Substances) inventory<br>s List)<br>hemicals)<br>emicals and Chemical Substances)<br>nces Control Law   |  |
| 3-Acrylamidopropyltrimethoxysilane (5757   |   |  |
| 3-Acrylamidopropyltrimetnoxysilane (5757<br>Hydroquinone (123-31-9)  | (-00-0)   |  |

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 Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

#### 15.3. US State regulations

| 0   |    |  |
|---|----|--|
| 3-ACRYLAMIDOPROPYLTRIMETHOXYSILANE, tech-95(57577-96-5)             |    |  |
| U.S California - Proposition 65 - Carcinogens List                  | No |  |
| U.S California - Proposition 65 - Developmental<br>Toxicity         | No |  |
| U.S California - Proposition 65 - Reproductive<br>Toxicity - Female | No |  |
| U.S California - Proposition 65 - Reproductive<br>Toxicity - Male   | No |  |

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| 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 level<br>(NSRL) |  |
| No   | Yes  | No  | No  |                                      |  |
| 3-Acrylamidopropyltrimeth                                | oxysilane (57577-96-5)   |   |   |                                      |  |
| 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 level<br>(NSRL) |  |
| No   | No   | No  | No  |                                      |  |
| Hydroquinone (123-31-9)                                  | •  |   |   |                                      |  |
| 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 level<br>(NSRL) |  |
| No   | No   | No  | No  |                                      |  |
| Hydroquinone (123-31-9)                                  |  |   |   |                                      |  |

### **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.

| t of H-phrases::                 |  |  |  |
|----------------------------------|--|--|--|
| 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                             |  |
| Acute Tox. 4 (Oral)              |  | Acute toxicity (oral) Category 4                             |  |
| Aquatic Acute 1                  |  | Hazardous to the aquatic environment - Acute Hazard Category |  |
| 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                                 |  |
| Muta. 2                          |  | Germ cell mutagenicity Category 2                            |  |
| Skin Irrit. 2                    |  | Skin corrosion/irritation Category 2                         |  |
| Skin Sens. 1                     |  | Skin sensitization Category 1                                |  |
| 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   |  |
| H302                             |  | Harmful if swallowed   |  |
| H311                             |  | Toxic in contact with skin                                   |  |
| H315                             |  | Causes skin irritation                                       |  |
| H317                             |  | May cause an allergic skin reaction                          |  |
| H318                             |  | Causes serious eye damage                                    |  |
| H319                             |  | Causes serious eye irritation                                |  |
| H331                             |  | Toxic if inhaled   |  |
| H336                             |  | May cause drowsiness or dizziness                            |  |
| H341                             |  | Suspected of causing genetic defects                         |  |
| H370                             |  | Causes damage to organs                                      |  |
| H400                             |  | Very toxic to aquatic life                                   |  |

#### **HMIS III Rating**

### Health Flammability

: 2 Moderate Hazard - Temporary or minor injury may occur

: 1 Slight Hazard

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Physical

: 0 Minimal Hazard

Prepared by safety and environmental affairs.

Date of issue: 04/09/2015 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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