

Safety Data Sheet PP1-HSAR Date of issue: 08/26/2015 Version: 1.0

|   | substance/mixture and of the company/undertaking  |  |  |
|---|---|--|--|
| 1.1. Product identifier   |   |  |  |
| Product form  | : Mixture   |  |  |
| Physical state  | : Liquid  |  |  |
| Product name  | : HARDSIL™ AR   |  |  |
| Product code  | : PP1-HSAR  |  |  |
| Synonyms  | : PHENYL-METHYLSILSESQUIOXANE RESIN SOLUTION; PHENYL-METHYL T RESIN<br>SILOXANE SOLUTION                        |  |  |
| Chemical family   | : ORGANOSILOXANE  |  |  |
| 1.2. Relevant identified uses of the su   | substance 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 safeGELEST, INC.11 East Steel RoadMorrisville, PA 19067USAT 215-547-1015 - F 215-547-2484 - (M-F): 8:info@gelest.com- www.gelest.com |   |  |  |
| 1.4. Emergency telephone number   |   |  |  |
| Emergency number  | : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)   |  |  |
| SECTION 2: Hazards identification   | n   |  |  |
| 2.1. Classification of the substance of   | or mixture  |  |  |
| Classification (GHS-US)   |   |  |  |
| Flam. Liq. 3 H226   |   |  |  |
| Eye Irrit. 2A H319  |   |  |  |
| STOT SE 3 H336  |   |  |  |
| Full text of H-phrases: see section 16  |   |  |  |
| Full text of H-phrases: see section 16         2.2.       Label elements  |   |  |  |
|   |   |  |  |
| 2.2. Label elements   | $\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$                                     |  |  |
| 2.2. Label elements<br>GHS-US labeling  | $\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$                                     |  |  |
| 2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)  |   |  |  |
| 2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)<br>Signal word (GHS-US)  | <ul> <li>Warning</li> <li>H226 - Flammable liquid and vapor<br/>H319 - Causes serious eye irritation</li> </ul> |  |  |

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P403+P235 - Keep in a cool place P405 - Store locked up P501 - Dispose of contents/contain

nts/container to licensed waste disposal facility

|   |   | - Dispose of contents/container to licensed wa   | ste dispos   | sal facility.                          |
|---|---|--|--------------|--|
| 2.3. Other hazards  |   |  |              |  |
| No additional information available                                 |   |  |              |  |
| 2.4. Unknown acute toxicity (GHS US)                                | )   |  |              |  |
| No data available   |   |  |              |  |
| SECTION 3: Composition/informat                                     | tion on in  | gredients  |              |  |
| 3.1. Substance  |   |  |              |  |
| Not applicable  |   |  |              |  |
| 3.2. Mixture  |   |  |              |  |
| Name  |   | Product identifier   | %            | Classification (GHS-US)                |
| Methoxypropanol   |   | (CAS No) 107-98-2  | 75 - 85      | Flam. Liq. 3, H226                     |
|   |   |  |              | Eye Irrit. 2A, H319<br>STOT SE 3, H336 |
| Phenyl-methylsilsesquioxane resin                                   |   | (CAS No) 181186-29-8   | 15 - 25      | Not classified                         |
| SECTION 4. First sid measures                                       |   |  |              |  |
| SECTION 4: First aid measures                                       |   |  |              |  |
| 4.1. Description of first aid measures                              | Dore  | and change in a second share i | facoida      | torifyou fool unwall cook              |
| First-aid measures general  | medi  | ove contaminated clothing and shoes. In case o<br>cal advice immediately (show the label where p<br>able show packaging or label. Call a POISON C  | ossible). I  | f possible show this sheet; if not     |
| First-aid measures after inhalation                                 |   | ove victim to fresh air and keep at rest in a posi<br>II, seek medical advice.   | tion comfo   | ortable for breathing. If you feel     |
| First-aid measures after skin contact                               | : Wash  | n with plenty of soap and water. Get medical ad  | vice/atten   | tion.                                  |
| First-aid measures after eye contact                                |   | diately flush eyes thoroughly with water for at l  |              |  |
| First-aid measures after ingestion                                  | d measures after ingestion       resent and easy to do. Continue rinsing. Get medical advice/attention.         c measures after ingestion       resent and easy to do. Continue rinsing. Get medical advice/attention. |  |              |  |
| 4.2. Most important symptoms and ef                                 | fects, both   | acute and delayed  |              |  |
| Symptoms/injuries after inhalation                                  | : May   | cause drowsiness or dizziness. May cause irrita  | ation to the | e respiratory tract.                   |
| nptoms/injuries after skin contact : May cause skin irritation.     |   |  |              |  |
| ymptoms/injuries after eye contact : Causes serious eye irritation. |   |  |              |  |
| mptoms/injuries after ingestion : May be harmful if swallowed.      |   |  |              |  |
| 4.3. Indication of any immediate medi                               | cal attentio  | n and special treatment needed   |              |  |
| No additional information available                                 |   |  |              |  |
| <b>SECTION 5: Firefighting measures</b>                             | 5   |  |              |  |
| 5.1. Extinguishing media  |   |  |              |  |
| Suitable extinguishing media  | : Wate  | r spray. Foam. Carbon dioxide. Dry chemical.   |              |  |
| Unsuitable extinguishing media                                      | : Do no   | ot use straight streams.   |              |  |
| 5.2. Special hazards arising from the                               | substance   | or mixture   |              |  |
| Fire hazard   |   | mable liquid and vapor. Irritating fumes and org   | anic acid    | vapors may develop when                |
|   | mate  | rial is exposed to water or open flame.  |              |  |
| 5.3. Advice for firefighters  |   |  |              |  |
| Firefighting instructions   | : Use v   | vater spray to cool exposed surfaces. Exercise   | caution w    | hen fighting any chemical fire.        |
| Protection during firefighting                                      |   | ot enter fire area without proper protective equi  |              |  |
|   | Avoid   | I all eye and skin contact and do not breathe va   | por and n    | nist.                                  |
| <b>SECTION 6: Accidental release me</b>                             | easures   |  |              |  |
| 6.1. Personal precautions, protective                               | equipment   | and emergency procedures   |              |  |
| General measures  | : Rem   | ove ignition sources. Use special care to avoid  | static elec  | tric charges.                          |
| 6.1.1. For non-emergency personnel                                  |   |  |              |  |
| Protective equipment  | • W/ea  | protective equipment as described in Section 8   | 3.           |  |
| Emergency procedures  |   | uate unnecessary personnel.  |              |  |
|   |   |  |              |  |
| 6.1.2. For emergency responders                                     | _   |  |              |  |
| Protective equipment  | clear   | In ther information refer to section 8: "Exposure<br>up crew with proper protection. Do not attempt<br>ment.   |              |  |
|   |   |  |              |  |

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| 6.2. Environmental preca                               | autions  |  |   |
|--|--|--|---|
| Prevent entry to sewers and pul                        | blic waters. Notify authorities if   | liquid enters sewers or publi          | ic waters.  |
| 6.3. Methods and materia                               | al for containment and cleani  | ing up                                 |   |
| For containment  | : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.   |  |   |
| Methods for cleaning up                                | <ul> <li>Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or<br/>shovel spills into appropriate container for disposal. Use only non-sparking tools.</li> </ul>   |  |   |
| 6.4. Reference to other s                              | ections  |  |   |
| See Heading 8. Exposure control                        | ols and personal protection.   |  |   |
| SECTION 7: Handling a                                  | nd storage   |  |   |
| 7.1. Precautions for safe                              |  |  |   |
| Additional hazards when proces                         |  |  | cause residual vapors are flammable. Keep away from   |
| Precautions for safe handling                          | <ul> <li>heat/sparks/open flames/hot surfaces No smoking.</li> <li>andling</li> <li>Avoid all eye and skin contact and do not breathe vapor and mist. Provide good ventilation process area to prevent accumulation of vapors. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only outdoors or i well-ventilated area. Use only non-sparking tools.</li> </ul> |  | not breathe vapor and mist. Provide good ventilation in<br>of vapors. Ground/bond container and receiving<br>ures against static discharge. Use only outdoors or in a |
| Hygiene measures                                       |  |  | s with mild soap and water before eating, drinking or the contaminated clothing before reuse.   |
| 7.2. Conditions for safe                               | storage, including any incom   | patibilities                           |   |
| Technical measures                                     |  | ounding procedures to avoid equipment. | I static electricity should be followed. Use explosion-proof  |
| Storage conditions                                     | : Keep container tightly closed. Keep in a cool place. Store locked up.  |  |   |
| Incompatible materials                                 | : Oxidizing agent.   |  |   |
| Storage area   | : Store in a   | well-ventilated place. Store           | away from heat.   |
| 7.3. Specific end use(s)                               |  |  |   |
| No additional information availa                       | ble  |  |   |
| SECTION 8: Exposure c                                  | ontrols/personal protect   | ction                                  |   |
| 8.1. Control parameters                                |  |  |   |
| Methoxypropanol (107-98-2)                             |  |  |   |
| USA ACGIH  | ACGIH TWA (ppm)  |  | 50 ppm  |
| USA ACGIH  | ACGIH STEL (ppm)   |  | 100 ppm   |
| USA NIOSH  | NIOSH REL (TWA) (mg/m <sup>3</sup> )   |  | 360 mg/m <sup>3</sup>   |
| USA NIOSH  | NIOSH REL (TWA) (ppm)  |  | 100 ppm   |
| USA NIOSH  | NIOSH REL (STEL) (mg/m <sup>3</sup> )  |  | 540 mg/m <sup>3</sup>   |
| USA NIOSH  | NIOSH REL (STEL) (ppm)   |  | 150 ppm   |
|  |  |  |   |
| Phenyl-methylsilsesquioxan<br>USA OSHA                 | OSHA PEL (TWA) (mg/m <sup>3</sup> )  |  | 15 mg/m <sup>3</sup> (puisance dust)  |
|  |  |  | 15 mg/m <sup>3</sup> (nuisance dust)  |
| 8.2. Exposure controls Appropriate engineering control | e · Provide le   | cal exhaust or general room            | ventilation   |
| Personal protective equipment                          |  | -                                      | rgency eye wash fountains and safety showers should be  |
| ersonal protective equipment                           |  | n the immediate vicinity of a          |   |
| Hand protection  | : Neoprene   | or nitrile rubber gloves.              |   |
| Eye protection   | •  | goggles. Contact lenses sho            | buld not be worn.   |
| Skin and body protection                               |  | able protective clothing.              |   |
| Respiratory protection                                 | : Where exp  | posure through inhalation m            | ay occur from use, respiratory protection equipment is<br>ic vapor (black cartridge) respirator.  |
| SECTION 9: Physical ar                                 |  |  |   |
| 9.1. Information on basic                              | c physical and chemical prop   | erties                                 |   |
| Physical state   | : Liquid   |  |   |
| Appearance   | : Clear liqui  | d.                                     |   |

Color

Odor

Odor threshold

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: No data available

: Straw.

: Mild.

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| Refractive index  | : No data available   |  |  |  |
|---|---|--|--|--|
| рН  | : No data available   |  |  |  |
| Relative evaporation rate (butyl acetate=1)   | : No data available   |  |  |  |
| Melting point   | : No data available   |  |  |  |
| Freezing point  | : <-20 °C   |  |  |  |
| Boiling point   | 117 °C initial  |  |  |  |
| Flash point   | : 35 °C   |  |  |  |
| Auto-ignition temperature   | : No data available   |  |  |  |
| Decomposition temperature   | : No data available   |  |  |  |
| Flammability (solid, gas)   | : Flammable liquid and vapor  |  |  |  |
| Vapor pressure  | : No data available   |  |  |  |
| Relative vapor density at 20 °C   | : >1  |  |  |  |
| Relative density  | : 0.94  |  |  |  |
| VOC content   | : >75 %   |  |  |  |
| Solubility  | : 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   |  |  |  |
| Oxidizing properties  | : No data available   |  |  |  |
| Explosion 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  |  |  |  |
| Stable in sealed containers stored under a dry in   | ert atmosphere.   |  |  |  |
| 10.3. Possibility of hazardous reactions  |   |  |  |  |
| No additional information available   |   |  |  |  |
| 10.4. Conditions to avoid   |   |  |  |  |
| Heat. Open flame. Sparks.   |   |  |  |  |
| 10.5. Incompatible materials  |   |  |  |  |
| Oxidizing agent.  |   |  |  |  |
|   |   |  |  |  |
| <b>10.6.</b> Hazardous decomposition products<br>Organic acid vapors.   |   |  |  |  |
|   |   |  |  |  |
| SECTION 11: Toxicological information   | on  |  |  |  |
| 11.1. Information on toxicological effects  |   |  |  |  |
| Acute toxicity  | : Not classified  |  |  |  |
| Methoxypropanol (107-98-2)  |   |  |  |  |
| LD50 oral rat   | 5000 mg/kg  |  |  |  |
| LDC0 de marcel verbrit  |   |  |  |  |
| LD50 dermal rabbit  | 13 g/kg   |  |  |  |
| LC50 inhalation rat (mg/l)  | > 6 mg/l/4h   |  |  |  |
| LC50 inhalation rat (mg/l)<br>ATE US (oral)   | > 6 mg/l/4h<br>5000.000 mg/kg body weight   |  |  |  |
| LC50 inhalation rat (mg/l)<br>ATE US (oral)<br>ATE US (dermal)  | > 6 mg/l/4h           5000.000 mg/kg body weight           13000.000 mg/kg body weight  |  |  |  |
| LC50 inhalation rat (mg/l)<br>ATE US (oral)<br>ATE US (dermal)<br>Skin corrosion/irritation   | > 6 mg/l/4h         5000.000 mg/kg body weight         13000.000 mg/kg body weight         : Not classified   |  |  |  |
| LC50 inhalation rat (mg/l)<br>ATE US (oral)<br>ATE US (dermal)<br>Skin corrosion/irritation<br>Serious eye damage/irritation                                      | > 6 mg/l/4h         5000.000 mg/kg body weight         13000.000 mg/kg body weight         : Not classified         : Causes serious eye irritation.                          |  |  |  |
| LC50 inhalation rat (mg/l)<br>ATE US (oral)<br>ATE US (dermal)<br>Skin corrosion/irritation<br>Serious eye damage/irritation<br>Respiratory or skin sensitization | > 6 mg/l/4h         5000.000 mg/kg body weight         13000.000 mg/kg body weight         : Not classified         : Causes serious eye irritation.         : Not classified |  |  |  |
| LC50 inhalation rat (mg/l)<br>ATE US (oral)<br>ATE US (dermal)<br>Skin corrosion/irritation<br>Serious eye damage/irritation                                      | > 6 mg/l/4h         5000.000 mg/kg body weight         13000.000 mg/kg body weight         : Not classified         : Causes serious eye irritation.                          |  |  |  |

: Not classified Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

: Not classified

Carcinogenicity

| Specific target organ toxicity (repeated exposure)             | : Not classified   |  |  |
|--|--|--|--|
| Aspiration hazard  | : Not classified   |  |  |
| Symptoms/injuries after inhalation                             | : May cause drowsiness or dizziness. May cause irritation to the respiratory tract.  |  |  |
| Symptoms/injuries after skin contact                           | : May cause drowsiness or dizziness. May cause irritation to the respiratory tract.<br>: May cause skin irritation.  |  |  |
| Symptoms/injuries after eye contact                            | : May cause skin irritation.<br>: Causes serious eye irritation.   |  |  |
| Symptoms/injuries after ingestion                              | : May be harmful if swallowed.   |  |  |
| Reason for classification                                      | : Expert judgment  |  |  |
| SECTION 12: Ecological information                             | n .  |  |  |
| 12.1. Toxicity   |  |  |  |
| Methoxypropanol (107-98-2)                                     |  |  |  |
| LC50 fish 1  | 20.8 g/l (Exposure time: 96 h - Species: Pimephales promelas [static])   |  |  |
| EC50 Daphnia 1   | 23300 mg/l (Exposure time: 48 h - Species: Daphnia magna)  |  |  |
| 12.2. Persistence and degradability                            |  |  |  |
| No additional information available                            |  |  |  |
| 12.3. Bioaccumulative potential                                |  |  |  |
| Methoxypropanol (107-98-2)                                     |  |  |  |
| BCF fish 1   | <2   |  |  |
| Log Pow  | -0.437   |  |  |
| 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 consideratio                              | ns   |  |  |
| 13.1. Waste treatment methods                                  |  |  |  |
| Sewage disposal recommendations                                | : Do not dispose of waste into sewer.  |  |  |
| Waste disposal recommendations                                 | : May be incinerated. Dispose in a safe manner in accordance with local/national regulations<br>Dispose of contents/container to licensed waste disposal facility. |  |  |
| Additional information   | : Handle empty containers with care because residual vapors are flammable.   |  |  |
|  | : Avoid release to the environment.  |  |  |
| Ecology - waste materials                                      |  |  |  |
| SECTION 14: Transport information                              |  |  |  |
| 14.1. UN number  |  |  |  |
| UN-No.(DOT)  | : 1866   |  |  |
| DOT NA no.   | UN1866   |  |  |
| 14.2. UN proper shipping name                                  |  |  |  |
| Proper Shipping Name (DOT)                                     | : Resin solution<br>(PHENYL-METHYLSILSESQUIOXANE RESIN SOLUTION)   |  |  |
| Department of Transportation (DOT) Hazard<br>Classes           | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120  |  |  |
| Hazard labels (DOT)  | : 3 - Flammable liquid   |  |  |
|  |  |  |  |

## Other information

: No supplementary information available.

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#### Transport by sea

DOT Vessel Stowage Location

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

#### Air transport

DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75)

### SECTION 15: Regulatory information

| 15.1. US Federal regulations |   |
|------------------------------|---|
| HARDSIL™ AR                  |   |
| 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. |
| Methoxypropanol (107-98-2)   |   |

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

#### Phenyl-methylsilsesquioxane resin (181186-29-8)

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

15.2. International regulations

| Methoxypropanol (107-98-2)   |
|--|
| 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)                       |
| Listed on the Canadian IDL (Ingredient Disclosure List)  |
| Listed on INSQ (Mexican national Inventory of Chemical Substances)                                 |
| Listed on Turkish inventory of chemical  |
| Phenyl-methylsilsesquioxane resin (181186-29-8)  |
| Listed on the Canadian NDSL (Non-Domestic Substances List)   |

#### 15.3. US State regulations

| HARDSIL™ AR()   |    |
|---|----|
| 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 |
|   |    |

| Methoxypropanol (107-9                                   | 8-2)   |   |   |                                      |
|--|--|---|---|--------------------------------------|
| 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  |                                      |
| Phenyl-methylsilsesquid                                  | Phenyl-methylsilsesquioxane resin (181186-29-8)                |   |   |                                      |
| 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  |                                      |

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# 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::

| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A               |
|---------------|---|
| Flam. Liq. 3  | Flammable liquids Category 3                                |
| STOT SE 3     | Specific target organ toxicity (single exposure) Category 3 |
| H226          | Flammable liquid and vapor                                  |
| H319          | Causes serious eye irritation                               |
| H336          | May cause drowsiness or dizziness                           |

#### HMIS III Rating

: 2 Moderate Hazard - Temporary or minor injury may occur

Health Flammability Physical

: 3 Serious Hazard : 0 Minimal Hazard

Prepared by safety and environmental affairs.

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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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