MEGlobal Americas Inc. encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. Identification

Product Name
DIETHYLENE GLYCOL HIGH PURITY

Identified uses
For industrial use. It is recommended that you use this product in a manner consistent with the recommended use. If your intended use is not consistent with the recommended use, please contact our Customer Information Group (telephone number in Section 1 of this document).

Uses advised against
Production of tobacco products  Generation of artificial smoke  Electronic cigarettes (e-cigarettes)  Applications with direct or indirect food or potable water contact  Any application where the product is to be purposely used as a non-reactant component where the potential for sufficient human contact and/or ingestion exists  Freezer gel packs and heating packs  Manufacturing of munitions  Glues and pastes  Sprinkler systems  Deicing of road or sidewalks  Deicing of aircraft lavatories  Consumer or hospital usage for deodorizing or air “purifying” purposes by spraying as an aerosol  Fluid for pressure testing piping  Pharmaceutical Use  Treatment of wood rot and fungus in marine applications

COMPANY IDENTIFICATION
MEGlobal Americas Inc.
Suite 100
3320 Ridgecrest Drive
Midland, MI 48642
United States

Customer Information Number: 1-888-610-9048
http://www.meglobal.biz/
SDSQuestion@dow.com

EMERGENCY TELEPHONE NUMBER
24-Hour Emergency Contact: 989-636-4400
Local Emergency Contact: 989-636-4400

2. Hazards Identification

Classification of the substance or mixture  This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.
Hazard Class:

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (Oral)</td>
<td>4</td>
</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure (Oral)</td>
<td>2</td>
</tr>
</tbody>
</table>

Label elements
Hazard Symbol:

Signal Word: Warning
Hazard of product:
- Harmful if swallowed.
- May cause damage to organs through prolonged or repeated exposure if swallowed.

Precautionary Statements:
- Prevention: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wash hands thoroughly after handling.
- Response: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. Get medical advice/ attention if you feel unwell.
- Storage: Store locked up.
- Disposal: Dispose of contents and container to licensed, permitted incinerator, or other thermal destruction device.

Other Hazards: no data available

3. Composition Information

Synonym: Diethylene Glycol
This product is a substance.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>&gt;= 99.0 - &lt;= 100.0 %</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>&gt;= 0.0 - &lt;= 0.2 %</td>
</tr>
</tbody>
</table>

4. First-aid measures

Description of first aid measures
- General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Inhalation: Move person to fresh air; if effects occur, consult a physician.
- Skin Contact: Immediately flush skin with water while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Destroy contaminated leather items such as shoes, belts, and watchbands. Suitable emergency safety shower facility should be immediately available.
- Eye Contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
- Ingestion: Seek medical attention immediately. Do not induce vomiting. If person is fully conscious give 1 cup or 8 ounces (240 ml) of water. If medical advice is delayed and if an adult has swallowed several ounces of chemical, then give 3-4 ounces (1/3-1/2 Cup) (90-120 ml) of hard liquor such as 80 proof whiskey. For children, give proportionally less liquor at a dose of 0.3 ounce (1 ½ tsp.) (8 ml)
liquor for each 10 pounds of body weight, or 2 ml per kg body weight [e.g., 1.2 ounce (2 1/3 tbsp.) for a
40 pound child or 36 ml for an 18 kg child].

**Most important symptoms and effects, both acute and delayed**
Aside from the information found under Description of first aid measures (above) and Indication of
immediate medical attention and special treatment needed (below), any additional important
symptoms and effects are described in Section 11: Toxicology Information.

**Indication of immediate medical attention and special treatment needed**
Due to structural analogy and clinical data, this material may have a mechanism of intoxication similar
to ethylene glycol. On that basis, treatment similar to ethylene glycol intoxication may be of benefit. In
cases where several ounces (60 - 100 ml) have been ingested, consider the use of ethanol and
hemodialysis in the treatment. Consult standard literature for details of treatment. If ethanol is used, a
therapeutically effective blood concentration in the range of 100 - 150 mg/dl may be achieved by a
rapid loading dose followed by a continuous intravenous infusion. Consult standard literature for
details of treatment. 4-Methyl pyrazole (Antizol®) is an effective blocker of alcohol dehydrogenase
and should be used in the treatment of ethylene glycol (EG), di- or triethylene glycol (DEG, TEG),
ethylene glycol butyl ether (EGBE), or methanol intoxication if available. Fomepizole protocol (Brent,
intravenously, follow by bolus dose of 10 mg/kg every 12 hours; after 48 hours, increase bolus dose to
15 mg/kg every 12 hours. Continue fomepizole until serum methanol, EG, DEG, TEG or EGBE are
undetectable. The signs and symptoms of poisoning include anion gap metabolic acidosis, CNS
depression, renal tubular injury, and possible late stage cranial nerve involvement. Respiratory
symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure
should be observed 24-48 hours for signs of respiratory distress. In severe poisoning, respiratory
support with mechanical ventilation and positive end expiratory pressure may be required. Maintain
adequate ventilation and oxygenation of the patient. If lavage is performed, suggest endotracheal
and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when
considering emptying the stomach. If burn is present, treat as any thermal burn, after
decontamination. Treatment of exposure should be directed at the control of symptoms and the
clinical condition of the patient.

5. **Fire Fighting Measures**

**Suitable extinguishing media**
Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.
Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF)
or protein foams may function, but will be less effective.

**Extinguishing Media to Avoid:** Do not use direct water stream. May spread fire.

**Special hazards arising from the substance or mixture**
**Hazardous Combustion Products:** During a fire, smoke may contain the original material in addition
to combustion products of varying composition which may be toxic and/or irritating. Combustion
products may include and are not limited to: Carbon monoxide. Carbon dioxide.

**Unusual Fire and Explosion Hazards:** Container may rupture from gas generation in a fire situation.
Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

**Advice for firefighters**
**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Use water
spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has
passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose
holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound
from venting safety device or discoloration of the container. Burning liquids may be extinguished by
dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if
this is possible without hazard. Burning liquids may be moved by flushing with water to protect
personnel and minimize property damage.

**Special Protective Equipment for Firefighters:** Wear positive-pressure self-contained breathing
apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers,
boots, and gloves). If protective equipment is not available or not used, fight fire from a protected
location or safe distance.
6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Collect in suitable and properly labeled containers. Small spills: Absorb with materials such as: Cat litter. Sand. Sawdust. Vermiculite. Zorb-all®. Hazorb®. Large spills: Dike area to contain spill. Pump into suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

7. Handling and Storage

Handling

General Handling: Avoid contact with eyes, skin, and clothing. Do not swallow. Wash thoroughly after handling. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Storage

Do not store near food, foodstuffs, drugs or potable water supplies. Additional storage and handling information on this product may be obtained by calling your sales or customer service contact. Ask for a product brochure.

8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Component</th>
<th>List</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol</td>
<td>AIHA WEEL</td>
<td>TWA</td>
<td>10 mg/m3</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>ACGIH</td>
<td>Ceiling</td>
<td>100 mg/m3</td>
</tr>
</tbody>
</table>

Personal Protection

Eye/Face Protection: Use safety glasses (with side shields).

Skin Protection: When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as faceshield, boots, apron, or full-body suit will depend on the task. When handling hot material, protect skin from thermal burns as well as from skin absorption.

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use gloves with insulation for thermal protection, when needed. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture
protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Respiratory Protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

**Ingestion:** Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

**Engineering Controls**

**Ventilation:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

### 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>odourless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No test data available</td>
</tr>
<tr>
<td>pH</td>
<td>No test data available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No test data available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>-6.5 °C (20.3 °F)</td>
</tr>
<tr>
<td>Boiling Point (760 mmHg)</td>
<td>244.9 °C (472.8 °F)</td>
</tr>
<tr>
<td>Flash Point - Closed Cup</td>
<td>138 °C (280 °F)</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>No test data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable to liquids</td>
</tr>
<tr>
<td>Flammable Limits In Air</td>
<td><strong>Lower:</strong> 2.0 % (V) <strong>Calculated</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Upper:</strong> 12.3 % (V) <strong>Estimated.</strong></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>0.002 mmHg @ 20 °C</td>
</tr>
<tr>
<td>Vapor Density (air = 1)</td>
<td>3.65 Literature</td>
</tr>
<tr>
<td>Specific Gravity (H2O = 1)</td>
<td>1.118 Literature</td>
</tr>
<tr>
<td>Solubility in water (by weight)</td>
<td>100 % @ 20 °C</td>
</tr>
<tr>
<td>Partition coefficient, n-ocanol/water (log Pow)</td>
<td>-1.98 Estimated.</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>229 °C (444 °F)</td>
</tr>
<tr>
<td>Decomposition</td>
<td>No test data available</td>
</tr>
<tr>
<td>Temperature</td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>35.7 mPa.s @ 20 °C</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>The substance or mixture is not classified as oxidizing.</td>
</tr>
<tr>
<td>Liquid Density</td>
<td>1.18 g/cm3 @ 20 °C</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>No test data available</td>
</tr>
<tr>
<td>Henry’s Law Constant (H)</td>
<td>7.96E-10 atm*m3/mole; 25 °C Estimated.</td>
</tr>
</tbody>
</table>

### 10. Stability and Reactivity

**Reactivity**

No dangerous reaction known under conditions of normal use.

**Chemical stability**

Thermally stable at recommended temperatures and pressures.
Possibility of hazardous reactions
Polymerization will not occur.

**Conditions to Avoid:** Exposure to elevated temperatures can cause product to decompose.
Generation of gas during decomposition can cause pressure in closed systems.

**Incompatible Materials:** Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

**Hazardous decomposition products**
Decomposition products depend upon temperature, air supply and the presence of other materials.
Decomposition products can include and are not limited to: Aldehydes. Alcohols. Ethers.

## 11. Toxicological Information

### Acute Toxicity

**Ingestion**
Oral toxicity is expected to be moderate in humans due to diethylene glycol even though tests with animals show a lower degree of toxicity. May cause nausea and vomiting. May cause abdominal discomfort or diarrhea. Excessive exposure may cause central nervous system effects, cardiopulmonary effects (metabolic acidosis), and kidney failure.
Estimated. Lethal Dose, Human, adult 2 Ounces
LD50, rat, male 19,600 mg/kg

**Aspiration hazard**
Based on physical properties, not likely to be an aspiration hazard.

**Dermal**
Prolonged skin contact is unlikely to result in absorption of harmful amounts. Repeated skin exposure to large quantities may result in absorption of harmful amounts. Massive contact with damaged skin or of material sufficiently hot to burn skin may result in absorption of potentially lethal amounts.
LD50, rabbit 13,330 mg/kg

**Inhalation**
At room temperature, exposure to vapor is minimal due to low volatility. With good ventilation, single exposure is not expected to cause adverse effects. If material is heated or areas are poorly ventilated, vapor/mist may accumulate and cause respiratory irritation and symptoms such as headache and nausea.
The LC50 value is greater than the Maximum Attainable Concentration. LC50, 4 h, Aerosol, rat > 4.6 mg/l
No deaths occurred at this concentration.

**Eye damage/eye irritation**
May cause slight temporary eye irritation. Corneal injury is unlikely.

**Skin corrosion/irritation**
Prolonged contact is essentially nonirritating to skin.

**Sensitization**

**Skin**
Did not cause allergic skin reactions when tested in humans. Did not cause allergic skin reactions when tested in guinea pigs.

**Respiratory**
No relevant data found.

**Repeated Dose Toxicity**
In humans, effects have been reported on the following organs: Kidney. Gastrointestinal tract. In humans, symptoms may include: Headache. Nausea and/or vomiting. Abdominal discomfort. In animals, effects have been reported on the following organs: Liver.

**Chronic Toxicity and Carcinogenicity**
Diethylene glycol has been tested for carcinogenicity in animal studies and is not believed to pose a carcinogenic risk to man.

**Developmental Toxicity**
Diethylene glycol has caused toxicity to the fetus and some birth defects at maternally toxic, high doses in animals. Other animal studies have not reproduced birth defects even at much higher doses that caused severe maternal toxicity.

**Reproductive Toxicity**
Diethylene glycol did not interfere with reproduction in animal studies except at very high doses.
Genetic Toxicology
In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

12. Ecological Information

Toxicity
Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

Fish Acute & Prolonged Toxicity
LC50, Pimephales promelas (fathead minnow), flow-through test, 96 h: 75,200 mg/l

Aquatic Invertebrate Acute Toxicity
EC50, Daphnia magna (Water flea), static test, 24 h, immobilization: > 10,000 mg/l

Toxicity to Micro-organisms
EC50, OECD 209 Test; activated sludge, Respiration inhibition, 3 h: > 1,000 mg/l

Persistence and Degradability
Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches > 70% biodegradation in OECD test(s) for inherent biodegradability).

OECD Biodegradation Tests: Based on analogy.

<table>
<thead>
<tr>
<th>Biodegradation</th>
<th>Exposure Time</th>
<th>Method</th>
<th>10 Day Window</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 - 100 %</td>
<td>20 d</td>
<td>OECD 301A Test</td>
<td>pass</td>
</tr>
<tr>
<td>82 - 98 %</td>
<td>28 d</td>
<td>OECD 302C Test</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Theoretical Oxygen Demand: 1.51 mg/mg

Bioaccumulative potential
Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient, n-octanol/water (log Pow): -1.98 Estimated.

Bioconcentration Factor (BCF): 100; Fish; Measured

Mobility in soil
Mobility in soil: Given its very low Henry’s constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process., Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient, soil organic carbon/water (Koc): < 1 Estimated.

Henry’s Law Constant (H): 7.96E-10 atm*m3/mole; 25 °C Estimated.

Distribution in Environment: Mackay Level 1 Fugacity Model:

<table>
<thead>
<tr>
<th>Air</th>
<th>Water</th>
<th>Biota</th>
<th>Soil</th>
<th>Sediment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75 %</td>
<td>99.25 %</td>
<td>0 %</td>
<td>0 %</td>
<td>0 %</td>
</tr>
</tbody>
</table>

Results of PBT and vPvB assessment
This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Other adverse effects
This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

13. Disposal Considerations

Disposal methods
DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and
regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Recycler. Reclaimer. Incinerator or other thermal destruction device.

14. Transport Information

DOT Non-Bulk
NOT REGULATED

DOT Bulk
NOT REGULATED

IMDG
NOT REGULATED
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Product Name: DIETHYLENE GLYCOL
Ship Type: Not available
Pollution Category: Z

ICAO/IATA
NOT REGULATED

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. Regulatory Information

OSHA Hazard Communication Standard
This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312
Immediate (Acute) Health Hazard Yes
Delayed (Chronic) Health Hazard Yes
Fire Hazard No
Reactive Hazard No
Sudden Release of Pressure Hazard No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313
To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.
Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List: The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.
Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:
To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)
WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

Component | CAS # | Amount |
--- | --- | --- |
1,4-Dioxane | 123-91-1 | <= 0.5 PPM |

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)
WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

Component | CAS # | Amount |
--- | --- | --- |
Ethylene glycol monomethyl ether | 109-86-4 | <= 0.05 PPM |

US. Toxic Substances Control Act
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

CEPA - Domestic Substances List (DSL)
All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16. Other Information

Hazard Rating System

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Revision
Identification Number: 78286 / 1046 / Issue Date 05/08/2015 / Version: 12.0
Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

<table>
<thead>
<tr>
<th>N/A</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>W/W</td>
<td>Weight/Weight</td>
</tr>
<tr>
<td>OEL</td>
<td>Occupational Exposure Limit</td>
</tr>
<tr>
<td>STEL</td>
<td>Short Term Exposure Limit</td>
</tr>
<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
</tr>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists, Inc.</td>
</tr>
<tr>
<td>DOW IHG</td>
<td>Dow Industrial Hygiene Guideline</td>
</tr>
<tr>
<td>WEEL</td>
<td>Workplace Environmental Exposure Level</td>
</tr>
<tr>
<td>HAZ _DES</td>
<td>Hazard Designation</td>
</tr>
</tbody>
</table>

MEGlobal Americas Inc. urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no
warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer’s/user’s responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer’s/user’s duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.