SECTION 1: Identification

Product identifiers:
- Product trade name: ERISYS* GE-5
- Company product number: GE5
- Other means of identification: Not Available

Recommended use of the chemical and restrictions on use:
- Uses: Epoxy liquid
- Restrictions on use: None identified

Details of the supplier:
- Manufacturer/Supplier: CVC Thermoset Specialties
  2980 Route 73 North
  Maple Shade, New Jersey 08052 United States
  Customer service telephone: +1-856-533-3000
- For further information about this SDS: Email: cts.customerservice@huntsman.com

Emergency telephone number:
ChemTel (24 hours): 1-800-255-3924 (USA); +1-813-248-0585 (outside USA).

SECTION 2: Hazard(s) Identification


Classification of the product:
- Flammable Liquid, category 3
- Acute Toxicity, Oral, category 4
- Skin Sensitizer, category 1
- Acute Toxicity, Inhalation, category 4
- STOT, single exposure, category 3, RTI
- Germ Cell Mutagenicity, category 2
- Carcinogenicity, category 2

Label elements:
- Hazard pictogram(s):

   ![Hazard Pictograms]

- Signal word: Warning

Hazard statements:
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.

Precautionary statements:
- P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P330 Rinse mouth.
P333+P313 IF skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use carbon dioxide, dry chemical, foam to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local, regional and international regulations.

Supplemental information: Hazardous to the aquatic environment - Chronic Category 3, Harmful to aquatic life with long lasting effects.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Annex III. Regulations in individual countries/regions may determine which statements are required on the product label. See product label for specifics.

Hazards not otherwise classified:
- Physical hazards not otherwise classified: No Additional Information
- Health hazards not otherwise classified: No Additional Information

See Section 11 for toxicological information.

SECTION 3: Composition/information on ingredients

Substance:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Weight%</th>
</tr>
</thead>
<tbody>
<tr>
<td>0002426-08-6</td>
<td>Butyl glycidyl ether</td>
<td>99-100</td>
</tr>
</tbody>
</table>

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

SECTION 4: First-aid measures

Description of first aid measures:

**General:** If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

**Eye contact:** Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. If eye irritation persists: Get medical advice/attention.

**Skin contact:** Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Inhalation:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

Protection of first aid responders: Wear proper personal protective clothing and equipment.

Most important symptoms and effects, both acute and delayed: Dizziness, Drowsiness, Headache, Irritation, Nausea. Preexisting sensitization, skin and/or respiratory disorders or diseases may be aggravated. See section 11 for additional information.

Indication of any immediate medical attention and special treatment needed, if necessary: Treat symptomatically.

SECTION 5: Fire-fighting measures

NFPA flammability class: II

Extinguishing media:
- **Suitable**: NFPA Class II (Combustible Liquid): Use water spray, ABC dry chemical, "alcohol" foam or CO2. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect emergency responders attempting to stop a leak. Water spray may be used to flush spills away from exposures and to dilute spills to nonflammable mixtures.
- **Unsuitable**: None known.

Special hazards arising from the chemical:
- **Unusual fire/explosion hazards**: Issue warning: combustible liquid. Eliminate all ignition sources. Ventilate the area. If spill is large, be prepared to isolate the hazard area. Deny access to the spill area to persons who are not involved in the cleanup and/or who have not been properly trained in spill management of hazardousflammable liquids. Vapors may explode if ignited in an enclosed area. Run off to sewer may cause a fire or explosion hazard. Protect product from flames of any kind; maintain proper clearance when using heat devices, etc. Closed container may rupture (due to build up in pressure) when exposed to extreme heat. Product may burn if an ignition source is present. Gives off volatile vapors that are heavier than air and may travel along the ground or may be moved by ventilation and ignited by flame, sparks, heaters, or other ignition sources at distant locations (flashback potential). May form explosive peroxides.
- **Hazardous combustion products**: Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (Hazardous decomposition products) for additional information.

Special protective equipment and precautions for fire-fighters: Use water/water spray to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures and to dilute spills to non-combustible mixtures. Do not flush combustible liquids into sewer as a fire or vapor explosion hazard may result. Never direct a hose stream directly onto a burning flammable/combustible liquid. Solid or straight hose stream will cause fire to spread if directed onto a burning spill or into an open container of burning liquid. Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

See section 9 for additional information.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 for recommendations on the use of personal protective equipment. Eliminate ignition sources. Ventilate areas of spill. Personal Protective Equipment must be worn.

Environmental precautions: Do not flush liquid into public sewer, water systems or surface waters.

Methods and materials for containment and cleaning up: Contain by diking with sand, earth or other non-combustible material. Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse. Remove all ignition sources, as spilled material may polymerize. Remove leaking containers to a ventilated area.

SECTION 7: Handling and storage

Precautions for safe handling: As with any chemical product, use good laboratory/workplace procedures. Do not cut, puncture, or
weld on or near the container. Do not get in eyes, on skin or clothing. Do not breathe dust, vapor, aerosol, mist or gas. Do not ingest, taste, or swallow. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Wash contaminated clothing before reuse. Discard shoes contaminated with this product. Provide eyewash fountains and safety showers in the work area. Bond and ground all containers when transferring chemical. Eliminate ignition sources (e.g., sparks, static buildup, excessive heat, etc.). Use spark-proof tools and equipment. Vapors may travel to distant ignition sources.

**Conditions for safe storage, including any incompatibilities:** Store in combustible storage area and away from heat and open flame. Keep away from heat, sparks and open flames. Store under well-ventilated conditions. Keep container upright, when not in use, to prevent leakage. Avoid storing containers in direct sunlight as vapors may accumulate in the head space creating pressure. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Product can accumulate static charge when handled. Equipment should be grounded. Emptied container may contain residual vapors or liquid which may ignite or explode. Do not reuse empty container without commercial cleaning or reconditioning. Bond and ground all containers when transferring chemical.

### SECTION 8: Exposure controls / personal protection

**Control parameters:**

**OCCUPATIONAL EXPOSURE LIMITS (OEL):**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH - TWA/Ceiling</th>
<th>ACGIH - STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl glycidyl ether</td>
<td>3 ppm TWA (skin)</td>
<td>N/E</td>
</tr>
<tr>
<td></td>
<td>(dermal sensitizer)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA - PEL</th>
<th>OSHA - STEL</th>
<th>OSHA - Ceiling</th>
<th>AIHA - WEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl glycidyl ether</td>
<td>50 ppm TWA</td>
<td>N/E</td>
<td>N/E</td>
<td>N/E</td>
</tr>
</tbody>
</table>

N/E = Not established (no exposure limits established for the listed substances for listed country/region/organization).

**Exposure controls:**

**Appropriate engineering controls:** Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Eliminate ignition sources (e.g., sparks, static buildup, excessive heat, etc.). (Ventilation guidelines/techniques may be found in publications such as Industrial Ventilation: American Conference of Governmental Industrial Hygienists, 1330 Kemper Meadow Drive, Cincinnati, OH, 45240-1634, USA.) ([http://www.acgih.org/home.htm](http://www.acgih.org/home.htm)).

**Individual protection measures, such as personal protective equipment (PPE):**

**Eye/face protection:** Safety glasses or goggles required.

**Skin and body protection:** Wear chemical resistant (impervious) gloves. Wear chemical resistant protective clothing. Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Wear an approved respirator (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

**Further information:** Eyewash fountains and safety showers are recommended in the work area.

### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>Aromatic</td>
</tr>
<tr>
<td>pH</td>
<td>Not Available</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.92</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>0.63</td>
</tr>
<tr>
<td>% Volatile by weight</td>
<td>Not Available</td>
</tr>
<tr>
<td>VOC</td>
<td>Not Available</td>
</tr>
<tr>
<td>Boiling point °C</td>
<td>164 °C</td>
</tr>
<tr>
<td>Boiling point °F</td>
<td>327 °F</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;54 °C (&gt;129 °F) Closed Cup</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Viscosity: 2 cps @ 25°C
SDS Name: ERISYS* GE-5

Melting point/Freezing point: Not Available
Oxidizing properties: Not oxidizing
Flammability or explosive limits:
LFL/LEL: Not Available
UFL/UEL: Not Available

Explosive properties: Not explosive
Decomposition temperature: Not Available
Surface tension:

Other information: Amounts specified are typical and do not represent a specification.

SECTION 10: Stability and reactivity

Reactivity: Exothermic reactions including polymerization may occur in contact with amines, strong acids, strong bases, strong oxidizing agents and excessive heat.

Chemical stability: This product is stable.

Possibility of hazardous reactions: Hazardous polymerization will not occur. This product will autopolymerize at very high temperatures.

Conditions to avoid: Excessive heat and ignition sources.

Incompatible materials: Avoid strong acids, bases, and oxidizing agents. Avoid contact with amines.

Hazardous decomposition products: Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

SECTION 11: Toxicological information

Information on likely routes of exposure:

General: Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure. BUTYL GLYCIDYL ETHER: May cause chronic health effects involving blood, central nervous system, kidney and liver based on animal data. Limited evidence of a carcinogenic effect. Possible risk of irreversible effects.

Eyes: May cause eye irritation.

Skin: May be harmful in contact with skin. May cause skin irritation. May cause allergic skin reaction.

Inhalation: Harmful if inhaled. May cause respiratory tract irritation.

Ingestion: Harmful if swallowed. Ingestion may cause irritation.

Symptoms/effects, acute and delayed: Dizziness, Drowsiness, Headache, Irritation, Nausea

Acute toxicity information: Harmful if inhaled (Category 4). Harmful if swallowed (Category 4).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Inhalation LC50</th>
<th>Species</th>
<th>Oral LD50</th>
<th>Species</th>
<th>Dermal LD50</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl glycidyl ether</td>
<td>1030 ppm (8 hours)</td>
<td>Rat/ adult</td>
<td>1660-2260 mg/kg</td>
<td>Rat/adult</td>
<td>&gt;2150 mg/kg</td>
<td>Rat/ adult</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified (based on available data, the classification criteria are not met).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Skin irritation</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl glycidyl ether</td>
<td>Mild irritant</td>
<td>Rabbit/ adult</td>
</tr>
</tbody>
</table>

Serious eye damage/irritation: Not classified (based on available data, the classification criteria are not met).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Eye irritation</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl glycidyl ether</td>
<td>Mild irritant</td>
<td>Rabbit/ adult</td>
</tr>
</tbody>
</table>

Respiratory or skin sensitization: Skin sensitization (Category 1). BUTYL GLYCIDYL ETHER: Dermal sensitization observed in animal testing.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Skin sensitisation</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl glycidyl ether</td>
<td>Sensitizer</td>
<td>Guinea Pig/ adult</td>
</tr>
</tbody>
</table>

Carcinogenicity: Suspected of causing cancer (Category 2).

Carcinogenic status:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>IARC</th>
<th>NTP</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
</table>

Page 5 / 9
**Chemical Name**: Butyl glycidyl ether

**IARC**: Group 2B (Possibly carcinogenic to humans)

**NTP**: N/A

**ACGIH**: N/A

**OSHA**: N/A

**Germ cell mutagenicity**: Suspected of causing genetic defects (Category 2). BUTYL GLYCIDYL ETHER: Butyl glycidyl ether tested positive in a number of in vitro genetic toxicity assays with and without metabolic activation. Mixed results were observed with the dominant lethal and the mouse micronucleus test.

**Reproductive toxicity**: Not classified. BUTYL GLYCIDYL ETHER: Reproductive toxicity: In an oral (gavage) prenatal development study, effects observed at the highest dose of 250 mg/kg/day were increased post-implantation embryo loss, decreased litter viability and litter weight; NOAEL (no-observed-adverse-effect-level) for embryo/fetal development=100 mg/kg/day; and NOAEL for maternal toxicity=>250 mg/kg/day (no material toxicity noted during study).

**Specific target organ toxicity (STOT) - single exposure**: May cause respiratory irritation (Category 3).

**Specific target organ toxicity (STOT) - repeated exposure**: Not classified. BUTYL GLYCIDYL ETHER: Laboratory animals exposed to the butyl glycidyl ether have shown some evidence of effects on the kidney, liver central nervous system and blood. In a 28-day inhalation study, rats exposed at 188 ppm showed decreased body weight and changes in blood chemistry. Severe irritation of the upper respiratory tract was observed in rats exposed at 94 ppm and 188 ppm. In a chronic toxicity study, male rats exposed at 150 ppm for 50 7-hour exposures demonstrated significantly retarded growth; at 300 ppm doses, there was 50% mortality and additional signs of toxicity including unkept appearance, liver necrosis and significant increase in kidney/body and lung/body weight ratios.

**Aspiration hazard**: Not classified (no relevant information found).

**Other toxicity information**: No additional information available.

### SECTION 12: Ecological information

**Ecotoxicity**:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Species</th>
<th>Acute</th>
<th>Chronic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl glycidyl ether</td>
<td>Fish</td>
<td>LC50 65 mg/L (96 hours)</td>
<td>N/E</td>
</tr>
<tr>
<td>Butyl glycidyl ether</td>
<td>Invertebrates</td>
<td>EC50 22 mg/L (24 hours)</td>
<td>N/E</td>
</tr>
<tr>
<td>Butyl glycidyl ether</td>
<td>Algae</td>
<td>EC50 35 mg/L (72 hours)</td>
<td>N/E</td>
</tr>
</tbody>
</table>

**Persistence and degradability**:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Biodegradation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl glycidyl ether</td>
<td>Not readily biodegradable</td>
</tr>
</tbody>
</table>

**Bioaccumulative potential**:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Bioconcentration Factor (BCF)</th>
<th>Log Kow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl glycidyl ether</td>
<td>N/E</td>
<td>0.63</td>
</tr>
</tbody>
</table>

**Mobility in soil**:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Mobility in soil (Koc/Kow)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl glycidyl ether</td>
<td>N/E</td>
</tr>
</tbody>
</table>

**Other adverse effects**: No additional information available.

### SECTION 13: Disposal considerations


See Section 8 for recommendations on the use of personal protective equipment.

### SECTION 14: Transport information

The information below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions.

**UN number**: UN3271

**UN proper shipping name**: 
SDS Name: ERISYS* GE-5

Ethers, n.o.s. (butyl glycidyl ether)

Transport hazard class(es):

- U.S. DOT hazard class: 3
- Canada TDG hazard class: 3
- Europe ADR/RID hazard class: 3
- IMDG Code (ocean) hazard class: 3
- ICAO/IATA (air) hazard class: 3

A "N/A" listing for the hazard class indicates the product is not regulated for transport by that regulation.

Packing group: III

Environmental hazards:

- Marine pollutant: Not Applicable
- Hazardous substance (USA): Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

- Not Applicable

Special precautions for user: Not Applicable

Notes: For surface shipment within the United States, flammable liquids with a flash point of 100-141 F (38-60 C) may be reclassified: In containers of 119 gallons capacity or less: NOT REGULATED. In containers of more than 119 gallons capacity: COMBUSTIBLE LIQUID.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question:

U.S. federal and state regulations/legislation:

This SDS has been prepared in accordance with the hazard criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Reportable Quantity (RQ):

- Not Applicable

U.S. Superfund Amendments and Reauthorization Act (SARA) - SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372:

- None known

U.S. TSCA Section 12(b) Export Notification:

This product is not subject to TSCA 12(b) reporting requirements.

California Proposition 65:

The following ingredient(s) present in the product is [are] known to the State of California to cause cancer:

None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

The following ingredient(s) present in the product is [are] known to the State of California to cause birth defects or other reproductive harm:

None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

Notes: No additional information

Canada regulations/legislation:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

Notes: This product contains a component (Oxirane, (butoxymethyl)-, CAS# 2426-08-6) that is subject to a Significant New
Activity Notice (SNAC) of the Canadian Environmental Protection Act. n-BUTYL GLYCIDYL ETHER: Listed on Canadian Environmental Protection Act - Schedule 1 - List of Toxic Substances.

Chemical inventories:

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australian Inventory of Chemical Substances (AICS):</td>
<td>Y</td>
</tr>
<tr>
<td>Canadian Domestic Substances List (DSL):</td>
<td>Y</td>
</tr>
<tr>
<td>Canadian Non-Domestic Substances List (NDSL):</td>
<td>N</td>
</tr>
<tr>
<td>China Inventory of Existing Chemical Substances (IECSC):</td>
<td>Y</td>
</tr>
<tr>
<td>European EC Inventory (EINECS, ELINCS, NLP):</td>
<td>Y</td>
</tr>
<tr>
<td>Japan Existing and New Chemical Substances (ENCS):</td>
<td>Y</td>
</tr>
<tr>
<td>Japan Industrial Safety and Health Law (ISHL):</td>
<td>Y</td>
</tr>
<tr>
<td>Korean Existing and Evaluated Chemical Substances (KECL):</td>
<td>Y</td>
</tr>
<tr>
<td>New Zealand Inventory of Chemicals (NZIoC):</td>
<td>Y</td>
</tr>
<tr>
<td>Philippines Inventory of Chemicals and Chemical Substances (PICCS):</td>
<td>Y</td>
</tr>
<tr>
<td>Taiwan Inventory of Existing Chemicals:</td>
<td>Y</td>
</tr>
<tr>
<td>U.S. Toxic Substances Control Act (TSCA) (Active):</td>
<td>Y</td>
</tr>
</tbody>
</table>

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory (or is not on the ACTIVE inventory for U.S. TSCA); 2) no information is available; or 3) the component has not been reviewed. A "Y" for New Zealand may mean that a qualified group standard may exist for the components in this product.

Europe REACh (EC) 1907/2006: Not all applicable components are registered. Please contact your sales representative for further information regarding REACh compliance. REACh is only relevant to substances either manufactured or imported into the EU. REACh information regarding this product is provided for informational purposes only. Each Legal Entity may have differing REACh obligations, depending on their place in the supply chain. For material manufactured outside of the EU, the importer of record must understand and meet their specific obligations under the regulation.

SECTION 16: Other information

SDS Revision date: 2020-08-04

HMIS (Hazardous Materials Identification System) Ratings:

Health: 2*  Flammability: 2  Physical hazard: 0  Personal Protection: X

NFPA (National Fire Protection Association) Ratings:

Health: 2  Flammability: 2  Instability: 0  Special hazards:

Key: 0=Insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme. An asterisk appearing after the HMIS Health numerical rating denotes a chronic hazard.

Hazardous Materials Identification System (HMIS), National Paint and Coating Association, rating applies to product "as packaged" (i.e., ambient temperature). Ratings are based upon HMIS® III and NFPA 704 (2007). An asterisk appearing after the HMIS Health® III numerical rating denotes a chronic hazard. National Fire Protection Association (NFPA) rating identifies the severity of hazards of material during a fire emergency (i.e., "on fire").

Legend:

*: Trademark owned by Huntsman Corporation.
ACGIH: American Conference of Governmental Industrial Hygienists
AIHA WEEL: American Industrial Hygiene Association (AIHA) Workplace Environmental Exposure Level (WEEL)
N/A: Not Applicable
N/E: None Established
STEL: Short Term Exposure Limit
TWA: Time Weighted Average (exposure for 8-hour workday)

Users Responsibility/Disclaimer of Liability:

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.
This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to develop appropriate work practice guidelines and employee instructional programs for your operation.

Safety Data Sheet Preparer:
Product Compliance Department