Dow Europe GmbH 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 of the substance/preparation and of the company/undertaking

Product Name

DOWCAL* 100 Heat Transfer Fluid

Identified uses

Intended as a heat transfer fluid for closed-loop systems. We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

COMPANY IDENTIFICATION

Dow Europe GmbH
Bachtobelstrasse 3
Horgen 8810
Switzerland

Customer Information Number: +31 115 67 2626
SDSQuestion@dow.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 00 41 447 28 2820
Local Emergency Contact: 91 22 66741800

2. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>Amount</th>
<th>Classification</th>
<th>CAS #</th>
<th>EC #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanediol; ethylene glycol</td>
<td>&gt;= 25.0 - &lt;= 96.0 %</td>
<td>Xn: R22</td>
<td>107-21-1</td>
<td>203-473-3</td>
</tr>
<tr>
<td>Water</td>
<td>&lt;= 75.0 %</td>
<td>Not classified.</td>
<td>7732-18-5</td>
<td>231-791-2</td>
</tr>
<tr>
<td>BORON POTASSIUM OXIDE (B4K2O7), TETRAHYDRATE</td>
<td>&lt; 3.0 %</td>
<td>Not classified.</td>
<td>12045-78-2</td>
<td>601-707-2</td>
</tr>
<tr>
<td>Sodium hydroxide; caustic soda</td>
<td>&lt; 2.0 %</td>
<td>C: R35</td>
<td>1310-73-2</td>
<td>215-185-5</td>
</tr>
</tbody>
</table>

See Section 16 for full text of R-phrases.
3. **Hazard Identification**

Harmful if swallowed.
Irritating to eyes and skin.

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:** Do not induce vomiting. Seek medical attention immediately. 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 1/2 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), no additional symptoms and effects are anticipated.

**Indication of immediate medical attention and special treatment needed**

If several ounces (60 - 100 ml) of ethylene glycol have been ingested, early administration of ethanol may counter the toxic effects (metabolic acidosis, renal damage). Consider hemodialysis or peritoneal dialysis & thiamine 100 mg plus pyridoxine 50 mg intravenously every 6 hours. 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, J. et al., New England Journal of Medicine, Feb. 8, 2001, 344:6, p. 424-9): loading dose 15 mg/kg 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. Liquid mist of this product can burn. Flammable concentrations of vapor can accumulate at temperatures above flash point; see Section 9.

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). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

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: Small spills: Absorb with materials such as: Cat litter. Sawdust. Vermiculite. Zorb-all®. Collect in suitable and properly labeled containers. Large spills: Di ke area to contain spill. See Section 13, Disposal Considerations, for additional information.

7. Handling and Storage

Handling
General Handling: Do not swallow. Avoid contact with eyes. 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 in: Galvanized steel. Opened or unlabeled containers. Store in the following material(s): Carbon steel. Stainless steel. Store in original unopened container. Store away from direct sunlight. Store in tightly closed container. Use only with adequate ventilation. See Section 10 for more specific information. Additional storage and handling information on this product may be obtained by calling your sales or customer service contact.

Shelf life: Use within 60 Months

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>Ethanediol; ethylene glycol</td>
<td>ACGIH</td>
<td>Ceiling Aerosol.</td>
<td>100 mg/m3</td>
</tr>
<tr>
<td></td>
<td>EU IOELV</td>
<td>TWA</td>
<td>52 mg/m3 20 ppm SKIN</td>
</tr>
<tr>
<td></td>
<td>EU IOELV</td>
<td>STEL</td>
<td>104 mg/m3 40 ppm SKIN</td>
</tr>
<tr>
<td>BORON POTASSIUM OXIDE (B4K2O7), TETRAHYDRATE</td>
<td>ACGIH</td>
<td>TWA Inhalable fraction.</td>
<td>2 mg/m3</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>STEL Inhalable fraction.</td>
<td>6 mg/m3</td>
</tr>
<tr>
<td>Sodium hydroxide; caustic soda</td>
<td>ACGIH</td>
<td>Ceiling</td>
<td>2 mg/m3</td>
</tr>
<tr>
<td></td>
<td>IN OEL</td>
<td>CEILING</td>
<td>2 mg/m3</td>
</tr>
</tbody>
</table>

A "skin" notation following the inhalation exposure guideline refers to the potential for dermal absorption of the material including mucous membranes and the eyes either by contact with vapors or by direct skin contact. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposures should be considered.

Personal Protection

Eye/Face Protection: Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent. If exposure causes eye discomfort, use a full-face respirator.

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 chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Use gloves with insulation for thermal protection (EN 407), 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: Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is
recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended.

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. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2.

**Ingestion:** Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face 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><strong>Appearance</strong></td>
<td></td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Color is variable</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No test data available</td>
</tr>
<tr>
<td>pH</td>
<td>7.6 - 8.2 (@ 50 %) Literature</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not applicable to liquids</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>-51 - -14 °C Literature</td>
</tr>
<tr>
<td>Boiling Point (760 mmHg)</td>
<td>170 °C Literature</td>
</tr>
<tr>
<td>Flash Point - Closed Cup</td>
<td>120 °C Literature</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>&lt; 0.5 Estimated.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable to liquids</td>
</tr>
<tr>
<td>Flammable Limits in Air</td>
<td>Lower: 3.2 %(V) Literature Ethylene Glycol Liquid.</td>
</tr>
<tr>
<td></td>
<td>Upper: Not determined.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>3 mbar @ 20 °C Literature</td>
</tr>
<tr>
<td>Vapor Density (air = 1)</td>
<td>&gt;1 Literature</td>
</tr>
<tr>
<td>Specific Gravity (H2O = 1)</td>
<td>1.044 - 1.134 20 °C/20 °C Literature</td>
</tr>
<tr>
<td>Solubility in water (by weight)</td>
<td>Miscible in all proportions</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>435 °C Literature Ethylene Glycol</td>
</tr>
<tr>
<td>Decomposition</td>
<td>No test data available</td>
</tr>
<tr>
<td>Temperature</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>10 - 30 mm2/s @ 20 °C Literature</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### 10. Stability and Reactivity

**Reactivity**

No dangerous reaction known under conditions of normal use.
**Chemical stability**
Thermally stable at typical use temperatures.

**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 ethylene glycol even though tests with animals show a lower degree of toxicity. Ingestion of quantities (approximately 65 mL (2 oz.) for diethylene glycol or 100 mL (3 oz.) for ethylene glycol) has caused death in humans. Excessive exposure may cause central nervous system effects, cardiopulmonary effects (metabolic acidosis), and kidney failure. May cause nausea and vomiting. May cause abdominal discomfort or diarrhea.

For Ethylene glycol: Lethal Dose, Human, adult 100 ml
For Ethylene glycol: LD50, rat 6,000 - 13,000 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.

For Ethylene glycol: LD50, rabbit > 22,270 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.

As product: The LC50 has not been determined.

**Eye damage/eye irritation**
May cause slight eye irritation. Corneal injury is unlikely. Vapor or mist may cause eye irritation.

**Skin corrosion/irritation**
Brief contact is essentially nonirritating to skin. Prolonged contact may cause slight skin irritation with local redness. Repeated contact may cause slight skin irritation with local redness.

**Sensitization**

**Skin**
Based on information for component(s): Did not cause allergic skin reactions when tested in guinea pigs.

**Respiratory**
No relevant data found.

**Repeated Dose Toxicity**
Based on information for component(s): Observations in humans include: Nystagmus (involuntary eye movement). In animals, effects have been reported on the following organs: Kidney. Liver.

**Chronic Toxicity and Carcinogenicity**
Ethylene glycol did not cause cancer in long-term animal studies.

**Developmental Toxicity**
Based on animal studies, ingestion of very large amounts of ethylene glycol appears to be the major and possibly only route of exposure to produce birth defects. Exposures by inhalation or skin contact, the primary routes of occupational exposure, had minimal effect on the fetus, in animal studies.

**Reproductive Toxicity**
Ingestion of large amounts of ethylene glycol has been shown to interfere with reproduction in animals.

**Genetic Toxicology**
For the component(s) tested: In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

### 12. Ecological Information

#### Toxicity

**Data for Component: Ethanediol; ethylene glycol**
- Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).
- **Fish Acute & Prolonged Toxicity**
  - LC50, Pimephales promelas (fathead minnow), static test, 96 h: 72,860 mg/l
- **Aquatic Invertebrate Acute Toxicity**
  - EC50, Daphnia magna (Water flea), static test, 48 h, immobilization: > 100 mg/l
- **Aquatic Plant Toxicity**
  - ErC50, Pseudokirchneriella subcapitata (green algae), Growth rate inhibition, 96 h: 6,500 - 13,000 mg/l
- **Toxicity to Micro-organisms**
  - EC50, OECD 209 Test; activated sludge, 30 min: 225 mg/l

**Data for Component: Water**
- Not expected to be acutely toxic to aquatic organisms.

**Data for Component: Sodium hydroxide; caustic soda**
- May increase pH of aquatic systems to > pH 10 which may be toxic to aquatic organisms.

#### Persistence and Degradability

**Data for Component: Ethanediol; ethylene glycol**
- 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).

<table>
<thead>
<tr>
<th>OECD Biodegradation Tests:</th>
<th>Method</th>
<th>10 Day Window</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biodegradation</td>
<td>Exposure Time</td>
<td>Pass</td>
</tr>
<tr>
<td>90 - 100 %</td>
<td>10 d</td>
<td>OECD 301A Test</td>
</tr>
<tr>
<td>90 %</td>
<td>1 d</td>
<td>OECD 302B Test</td>
</tr>
</tbody>
</table>

**Data for Component: Water**
- Biodegradation is not applicable.

**Data for Component: Sodium hydroxide; caustic soda**
- Biodegradation is not applicable.

#### Bioaccumulative potential

**Data for Component: Ethanediol; ethylene glycol**
- Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).
- Partition coefficient, n-octanol/water (log Pow): -1.36 Measured
Data for Component: Water

**Bioaccumulation:** Partitioning from water to n-octanol is not applicable.

Data for Component: Sodium hydroxide; caustic soda

**Bioaccumulation:** No bioconcentration is expected because of the relatively high water solubility.

**Mobility in soil**

Data for Component: Ethanol; ethylene glycol

**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):** 8.05E-09 atm*m3/mole; 25 °C Estimated.

Data for Component: Water

**Mobility in soil:** No relevant data found.

Data for Component: Sodium hydroxide; caustic soda

**Mobility in soil:** Potential for mobility in soil is very high (Koc between 0 and 50).

**Partition coefficient, soil organic carbon/water (Koc):** 14 Estimated.

### 13. Disposal Considerations

This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required. Do not dump into any sewers, on the ground, or into any body of water.

### 14. Transport Information

**ROAD & RAIL**

NOT REGULATED

**OCEAN**

NOT REGULATED

**AIR**

NOT REGULATED

**INLAND WATERWAYS**

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

European Inventory of Existing Commercial Chemical Substances (EINECS)
The components of this product are on the EINECS inventory or are exempt from inventory requirements.

Classification and User Label Information

Hazard Symbol:
Xn - Harmful.

Risk Phrases:
R22 - Harmful if swallowed.
R36/38 - Irritating to eyes and skin.

Safety Phrases:
S46 - If swallowed, seek medical advice immediately and show this container or label.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 - After contact with skin, wash immediately with plenty of water

Contains: Ethanediol; ethylene glycol

16. Other Information

Risk-phrases in the Composition section
R22 Harmful if swallowed.
R35 Causes severe burns.

Revision
Identification Number: 1061724 / 3050 / Issue Date 2012/09/05 / Version: 4.0
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>

Dow Europe GmbH 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.