THE DOW CHEMICAL COMPANY 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. Product and Company Identification

   Product Name:
   Rinse T1100

   COMPANY IDENTIFICATION
   THE DOW CHEMICAL COMPANY
   2030 WILLARD H DOW CENTER
   MIDLAND MI 48674-0000
   UNITED STATES

   Customer Information Number:
   800-258-2436
   SDSQuestion@dow.com

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

2. Hazards Identification

   Emergency Overview
   Color: Clear
   Physical State: Liquid.
   Odor: Aromatic
   Hazards of product:
   CAUTION! May cause eye irritation. May cause skin irritation. May be harmful if inhaled. May cause respiratory tract irritation. May cause central nervous system effects. Aspiration hazard. Can enter lungs and cause damage. Combustible liquid and vapor. Isolate area. Vapor explosion hazard. Eliminate ignition sources. Vapors may travel a long distance; ignition and/or flash back may occur. Stay out of low areas. Keep upwind of spill.

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

**Potential Health Effects**

**Eye Contact:** May cause eye irritation. Vapor may cause eye irritation experienced as mild discomfort and redness.

**Skin Contact:** Brief contact may cause skin irritation with local redness. Prolonged contact may cause skin irritation with local redness. Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage. May cause drying and flaking of the skin. May cause more severe response on covered skin (under clothing, gloves).

**Skin Absorption:** Prolonged skin contact is unlikely to result in absorption of harmful amounts.

**Inhalation:** Vapor concentrations are attainable which could be hazardous on single exposure. May cause respiratory irritation and central nervous system depression.

**Ingestion:** Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

**Aspiration hazard:** Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia.

**Effects of Repeated Exposure:** In animals, effects have been reported on the following organs:
- Liver
- Blood

**Birth Defects/Developmental Effects:** Did not cause birth defects in laboratory animals. Has been toxic to the fetus in lab animals at doses nontoxic to the mother.

**Reproductive Effects:** In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

### 3. Composition Information

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>1,3,5-Trimethylbenzene</td>
<td>108-67-8</td>
<td>&gt;= 98.0 - &lt;= 100.0 %</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>95-63-6</td>
<td>&lt;= 1.0 %</td>
</tr>
<tr>
<td>C9 Aromatic Isomers</td>
<td></td>
<td>&lt;= 1.0 %</td>
</tr>
</tbody>
</table>

### 4. First-aid measures

**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.

**Skin Contact:** Wash skin with plenty of water.

**Inhalation:** Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

**Ingestion:** Do not induce vomiting. Call a physician and/or transport to emergency facility immediately.

**Notes to Physician:** 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. The decision of whether to induce vomiting or not should be made by a physician. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

**Medical Conditions Aggravated by Exposure:** Skin contact may aggravate preexisting dermatitis.

**Emergency Personnel Protection:** 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.
5. Fire Fighting Measures

Extinguishing Media: Water fog or fire spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. General purpose synthetic foams (including AFFF type) or protein foams are preferred if available. Alcohol resistant foams (ATC type) may function. Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Do not use direct water stream. May spread fire. Eliminate ignition sources. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Avoid accumulation of water. Product may be carried across water surface spreading fire or contacting an ignition source. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

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.

Unusual Fire and Explosion Hazards: Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. When product is stored in closed containers, a flammable atmosphere can develop. Electrically ground and bond all equipment. Flammable mixtures of this product are readily ignited even by static discharge. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Dense smoke is produced when product burns.

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.

6. Accidental Release Measures

Steps to be Taken if Material is Released or Spilled: Contain spilled material if possible. Large spills: Pump with explosion-proof equipment. If available, use foam to smother or suppress. Use non-sparking tools in cleanup operations. Small spills: Absorb with materials such as: Sand. Sawdust. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

Personal Precautions: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Vapor explosion hazard. Keep out of sewers. Ventilate area of leak or spill. Keep upwind of spill. Keep personnel out of low areas. No smoking in area. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. See Section 10 for more specific information. 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: Material may float on water and any runoff may create an explosion or fire hazard if ignited. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

7. Handling and Storage

Handling

General Handling: Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Do not swallow. Wash thoroughly after handling. Keep away from heat, sparks and flame. Keep container closed. Use with adequate ventilation. No smoking, open flames or sources of ignition in handling and storage area. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Electrically ground and bond all equipment. Use of
non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION. This product is a poor conductor of electricity and can become electrostatically charged, even in bonded or grounded equipment. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Handling operations that can promote accumulation of static charges include but are not limited to mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations.

**Storage**
Minimize sources of ignition, such as static build-up, heat, spark or flame. See Section 10 for more specific information.

To maintain product quality, recommended storage temperature is < 40 °C

### 8. Exposure Controls / Personal Protection

#### Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>List</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3,5-Trimethylbenzene</td>
<td>ACGIH</td>
<td>TWA</td>
<td>25 ppm</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>ACGIH</td>
<td>TWA</td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

#### Personal Protection

**Eye/face Protection:** Use safety glasses (with side shields). If exposure causes eye discomfort, use a full-face respirator.

**Skin Protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

**Hand Protection:** Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). Styrene/butadiene rubber. Viton. Examples of acceptable glove barrier materials include: Butyl rubber. Chlorinated polyethylene. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR").

**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, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply. The following should be effective types of air-purifying respirators: Organic vapor cartridge.

**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 engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

### 9. Physical and Chemical Properties
Physic State: Liquid.
Color: Clear
Odor: Aromatic
Odor Threshold: No test data available
Flash Point - Closed Cup: 44 °C (111 °F) Setalash Closed Cup ASTM D3278
Flammability (solid, gas): No
Flammable Limits In Air: Lower: 0.88 % (V) Literature
Upper: 6.1 % (V) Literature
Autoignition Temperature: 550 °C (1,022 °F) Literature
Vapor Pressure: 332 Pa @ 25 °C Supplier
Boiling Point (760 mmHg): 162 °C (324 °F) Literature
Vapor Density (air = 1): 4.1 Supplier
Specific Gravity (H2O = 1): 0.864 Literature
Freezing Point: -49 °C (-65 °F) Literature
Melting Point: No test data available
Solubility in water (by weight): 0.1 % Literature
pH: Not applicable
Decomposition: No test data available
Temperature: No test data available
Partition coefficient, n-octanol/water (log Pow): No test data available
Evaporation Rate (Butyl Acetate = 1): No test data available
Dynamic Viscosity: 0.71 mPa.s @ 20 °C Literature
Kinematic Viscosity: No test data available

10. Stability and Reactivity

Stability/Instability
Stable under recommended storage conditions. See Storage, Section 7. Thermally stable at typical use temperatures.
Conditions to Avoid: Exposure to elevated temperatures can cause product to decompose. Avoid static discharge.
Incompatible Materials: Avoid contact with oxidizing materials.
Hazardous Polymerization
Will not occur.
Thermal Decomposition
Decomposition products depend upon temperature, air supply and the presence of other materials.

11. Toxicological Information

Acute Toxicity
Ingestion
For the major component(s): LD50, Rat > 5,000 mg/kg
Dermal
The dermal LD50 has not been determined.
Inhalation
The LC50 has not been determined.
Eye damage/eye irritation
May cause eye irritation. Vapor may cause eye irritation experienced as mild discomfort and redness.
Skin corrosion/Irritation
Brief contact may cause skin irritation with local redness. Prolonged contact may cause skin irritation with local redness. Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage. May cause drying and flaking of the skin. May cause more severe response on covered skin (under clothing, gloves).

**Sensitization**
Skin
No relevant information found.

**Respiratory**
No relevant information found.

**Repeated Dose Toxicity**
In animals, effects have been reported on the following organs: Liver. Blood.

**Chronic Toxicity and Carcinogenicity**
No relevant information found.

**Developmental Toxicity**
Did not cause birth defects in laboratory animals. Has been toxic to the fetus in lab animals at doses non-toxic to the mother.

**Reproductive Toxicity**
In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

**Genetic Toxicology**
In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

### 12. Ecological Information

**ENVIRONMENTAL FATE**
**Data for Component: 1,3,5-Trimethylbenzene**

#### Movement & Partitioning
Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Potential for mobility in soil is low (Koc between 500 and 2000).

- **Henry's Law Constant (H):** 1.97E-02 atm*m3/mole; 25 °C Estimated.
- **Partition coefficient, n-octanol/water (log Pow):** 3.42 Measured
- **Partition coefficient, soil organic carbon/water (Koc):** 700 Estimated.
- **Bioconcentration Factor (BCF):** 23 - 342; fish; Measured

**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>97.26 %</td>
<td>0.62 %</td>
<td>&lt; 0.01 %</td>
<td>2.08 %</td>
<td>0.05 %</td>
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</tbody>
</table>

**Persistence and Degradability**
Material is not readily biodegradable according to OECD/EEC guidelines.

**Indirect Photodegradation with OH Radicals**

<table>
<thead>
<tr>
<th>Rate Constant</th>
<th>Atmospheric Half-life</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.51E-11 cm3/s</td>
<td>3.7 h</td>
<td>Estimated.</td>
</tr>
</tbody>
</table>

**OECD Biodegradation Tests:**

- **Biodegradation:** Exposure Time 28 d
- **Method:** OECD 301C Test

**Theoretical Oxygen Demand:** 3.19 mg/mg

**Data for Component: 1,2,4-Trimethylbenzene**

#### Movement & Partitioning
Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Potential for mobility in soil is low (Koc between 500 and 2000).

- **Henry's Law Constant (H):** 6.16E-03 atm*m3/mole; 25 °C Measured
- **Partition coefficient, n-octanol/water (log Pow):** 3.63 Measured
- **Partition coefficient, soil organic carbon/water (Koc):** 720 Estimated.
- **Bioconcentration Factor (BCF):** 33 - 275; common carp (Cyprinus carpio); Measured
Persistence and Degradability
Material is expected to biodegrade only very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.
Indirect Photodegradation with OH Radicals
<table>
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<tr>
<th>Rate Constant</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1.67E-11 cm³/s</td>
<td>0.641 d</td>
<td>Estimated.</td>
</tr>
</tbody>
</table>

OECD Biodegradation Tests:
<table>
<thead>
<tr>
<th>Biodegradation</th>
<th>Exposure Time</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 - 18 %</td>
<td>28 d</td>
<td>OECD 301C Test</td>
</tr>
</tbody>
</table>

Theoretical Oxygen Demand: 3.19 mg/mg

ECOTOXICITY
Data for Component: 1,3,5-Trimethylbenzene
Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

Fish Acute & Prolonged Toxicity
LC50, Japanese medaka (Oryzias latipes), static, 48 h: 8.6 mg/l
Aquatic Invertebrate Acute Toxicity
LC50, water flea Daphnia magna, 24 h, immobilization: 50 mg/l
Aquatic Plant Toxicity
EC50, alga Scenedesmus sp., biomass growth inhibition, 48 h: 25 mg/l
EC50, alga Scenedesmus sp., Growth rate inhibition, 48 h: 53 mg/l

Data for Component: 1,2,4-Trimethylbenzene
Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

Fish Acute & Prolonged Toxicity
LC50, fathead minnow (Pimephales promelas), flow-through, 96 h: 7.7 mg/l
Aquatic Invertebrate Acute Toxicity
EC50, water flea Daphnia magna, 48 h: 3.6 mg/l

13. Disposal Considerations

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. AS YOUR SUPPLIER, 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
Proper Shipping Name: 1,3,5-TRIMETHYLBENZENE
Hazard Class: 3    ID Number: UN2325    Packing Group: PG III

DOT Bulk
Proper Shipping Name: 1,3,5-TRIMETHYLBENZENE
Hazard Class: 3    ID Number: UN2325    Packing Group: PG III
IMDG
Proper Shipping Name: 1,3,5-TRIMETHYLENENZENE
Hazard Class: 3 ID Number: UN2325 Packing Group: PG III
EMS Number: F-E-S-D
Marine pollutant: Yes

ICAO/IATA
Proper Shipping Name: 1,3,5-TRIMETHYLENENZENE
Hazard Class: 3 ID Number: UN2325 Packing Group: PG III
Cargo Packing Instruction: 310
Passenger Packing Instruction: 309
Additional Information

MARINE POLLUTANT

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
No
Delayed (Chronic) Health Hazard
Yes
Fire Hazard
Yes
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.

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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)
This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

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

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

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

Recommended Uses and Restrictions
Rinsing and cleaning solvent. 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.

Revision
Identification Number: 81437 / A001 / Issue Date 04/15/2013 / Version: 5.0
Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

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<td>Weight/Weight</td>
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<td>Time Weighted Average</td>
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<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists, Inc.</td>
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<tr>
<td>DOW IHG</td>
<td>Dow Industrial Hygiene Guideline</td>
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<tr>
<td>WEEL</td>
<td>Workplace Environmental Exposure Level</td>
</tr>
<tr>
<td>HAZ DES</td>
<td>Hazard Designation</td>
</tr>
</tbody>
</table>

Action Level
A value set by OSHA that is lower than the PEL which will trigger the need for activities such as exposure monitoring and medical surveillance if exceeded.

THE DOW CHEMICAL COMPANY 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.