



**Safety Data Sheet**  
**Dow Chemical Company Ltd**  
Safety Data Sheet according to Reg. (EC) N. 453/2010

**Product Name:** EZI-GUN SURFACE PREPARATION CLEANER

**Revision Date:** 2012/03/20

**Print Date:** 25 Apr 2012

Dow Chemical Company Ltd 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.

## **Section 1. Identification of the substance/preparation and of the company/undertaking**

### **1.1 Product identifiers**

**Product Name**

EZI-GUN SURFACE PREPARATION CLEANER

### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses**

Cleaner. For use in automotive applications.

### **1.3 Details of the supplier of the safety data sheet**

**COMPANY IDENTIFICATION**

Dow Chemical Company Ltd  
Diamond House, Lotus Park  
Kingsbury Crescent  
TW18 3AG Staines, Middlesex  
United Kingdom

Customer Information Number:

0203 139 4000

[SDSQuestion@dow.com](mailto:SDSQuestion@dow.com)

### **1.4 EMERGENCY TELEPHONE NUMBER**

**24-Hour Emergency Contact:**

0031 115 694 982

**Local Emergency Contact:**

00 31 115 69 4982

## **Section 2. Hazards Identification**

### **2.1 Classification of the substance or mixture**

Classification according to EU Directives 67/548/EEC or 1999/45/EC

R10

Flammable.

### **2.2 Label elements**

Labelling according to EC Directives

**Risk Phrases :**

R10 - Flammable.

#### Safety Phrases :

S60 - This material and its container must be disposed of as hazardous waste.

#### 2.3 Other Hazards

No information available.

### Section 3. Composition/information on ingredients

#### 3.2 Mixture

This product is a mixture.

| CAS-No. / EC-No. / Index                                            | REACH No. | Amount           | Component                                                                   | Classification:<br>REGULATION (EC)<br>No 1272/2008                                                                 |
|---------------------------------------------------------------------|-----------|------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| CAS-No.<br>67-63-0<br>EC-No.<br>200-661-7<br>Index<br>603-117-00-0  | —         | > 5.0 - < 15.0 % | Propan-2-ol;<br>isopropyl alcohol;<br>isopropanol                           | Flam. Liq., 2, H225<br>Eye Irrit., 2, H319<br>STOT SE, 3, H336                                                     |
| CAS-No.<br>111-76-2<br>EC-No.<br>203-905-0<br>Index<br>603-014-00-0 | —         | < 5.0 %          | 2-Butoxyethanol;<br>ethylene glycol<br>monobutyl ether;<br>butyl cellosolve | Acute Tox., 4, H332<br>Acute Tox., 4, H312<br>Acute Tox., 4, H302<br>Eye cor/irr, 2, H319<br>Skin cor/irr, 2, H315 |

  

| CAS-No. / EC-No. / Index                                            | Amount           | Component                                                                | Classification:<br>67/548/EEC |
|---------------------------------------------------------------------|------------------|--------------------------------------------------------------------------|-------------------------------|
| CAS-No.<br>67-63-0<br>EC-No.<br>200-661-7<br>Index<br>603-117-00-0  | > 5.0 - < 15.0 % | Propan-2-ol; isopropyl alcohol; isopropanol                              | F: R11; Xi: R36; R67          |
| CAS-No.<br>111-76-2<br>EC-No.<br>203-905-0<br>Index<br>603-014-00-0 | < 5.0 %          | 2-Butoxyethanol;<br>ethylene glycol<br>monobutyl ether; butyl cellosolve | Xn: R20/21/22; Xi: R36/38     |

For the full text of the H-Statements mentioned in this Section, see Section 16.  
See Section 16 for full text of R-phrases.

### Section 4. First-aid measures

#### 4.1 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 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.

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

**Eye Contact:** Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

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

#### **4.2 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.

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

Maintain adequate ventilation and oxygenation of the patient. The decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Hemodialysis may be of benefit if substantial amounts have been ingested and the patient is showing signs of intoxication. Consider hemodialysis for patients with persistent hypotension or coma unresponsive to standard therapy (isopropanol levels >400 - 500 mg/dl).

(Goldfrank 1998, King et al, 1970). No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Skin contact may aggravate preexisting dermatitis.

## **Section 5. Fire Fighting Measures**

### **5.1 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.

### **5.2 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:** None known.

### **5.3 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. Burning liquids may be extinguished by dilution with water. Eliminate ignition sources. 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.

## **Section 6. Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures:** Isolate area. Keep unnecessary and unprotected personnel from entering the area. Keep personnel out of confined or poorly ventilated areas. Keep upwind of spill. Ventilate area of leak or spill. No smoking in area. Confined space entry procedures must be followed before entering the area. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Ground and bond all containers and handling equipment. Vapor explosion hazard. Keep out of sewers. 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.

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

**6.3 Methods and materials for containment and cleaning up:** Contain spilled material if possible. Absorb with materials such as: Cat litter. Sand. Sawdust. Pump with explosion-proof equipment. If available, use foam to smother or suppress. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

## Section 7. Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

**General Handling:** Keep away from heat, sparks and flame. Avoid contact with eyes. Do not swallow. Avoid breathing vapor. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. No smoking, open flames or sources of ignition in handling and storage area. Electrically ground and bond all equipment. 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. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. Do not enter confined spaces unless adequately ventilated. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

Minimize sources of ignition, such as static build-up, heat, spark or flame.

**Shelf life: Use within**

30 Months

**Storage temperature:**

5 - 25 °C

### 7.3 Specific end uses

See the technical data sheet on this product for further information.

## Section 8. Exposure Controls / Personal Protection

### 8.1 Control parameters

#### Exposure Limits

| Component                                                          | List         | Type | Value                 |
|--------------------------------------------------------------------|--------------|------|-----------------------|
| Propan-2-ol; isopropyl alcohol; isopropanol                        | UK WEL       | TWA  | 999 mg/m3 400 ppm     |
|                                                                    | UK WEL       | STEL | 1,250 mg/m3 500 ppm   |
|                                                                    | ACGIH        | TWA  | 200 ppm BEI           |
|                                                                    | ACGIH        | STEL | 400 ppm BEI           |
|                                                                    | Ireland OELV | TWA  | 200 ppm SKIN          |
|                                                                    | Ireland OELV | STEL | 400 ppm SKIN          |
| 2-Butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve | ACGIH        | TWA  | 20 ppm                |
|                                                                    | EU IOELV     | TWA  | 98 mg/m3 20 ppm SKIN  |
|                                                                    | EU IOELV     | STEL | 246 mg/m3 50 ppm SKIN |
|                                                                    | UK WEL       | TWA  | 25 ppm SKIN           |
|                                                                    | UK WEL       | STEL | 50 ppm SKIN           |

A BEI notation following the exposure guideline refers to a guidance value for assessing biological monitoring results as an indicator of the uptake of a substance from all routes of exposures.

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.

## 8.2 Exposure controls

### Personal Protection

**Eye/Face Protection:** Use chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent. If exposure causes eye discomfort, use a full-face respirator.

**Skin Protection:** Wear clean, body-covering clothing.

**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. Examples of preferred glove barrier materials include: Butyl rubber. Polyethylene. Neoprene. Chlorinated polyethylene. Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). Nitrile/butadiene rubber ("nitrile" or "NBR"). Ethyl vinyl alcohol laminate ("EVAL"). Avoid gloves made of: Polyvinyl alcohol ("PVA"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 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, 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. Use the following CE approved air-purifying respirator: Organic vapor cartridge, type A (boiling point >65 °C)

**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 in enclosed systems or with local exhaust ventilation. Exhaust systems should be designed to move the air away from the source of vapor/aerosol generation and people working at this point. Lethal concentrations may exist in areas with poor ventilation.

## Section 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| Physical State                       | Liquid.                              |
| Color                                | Blue                                 |
| Odor                                 | Alcohol.                             |
| Odor Threshold                       | No test data available               |
| pH                                   | 8.5 <i>Calculated</i>                |
| Melting Point                        | Not applicable to liquids            |
| Freezing Point                       | No test data available               |
| Boiling Point (760 mmHg)             | 100 °C <i>Literature</i> .           |
| Flash Point - Closed Cup             | 39 °C <i>Closed Cup</i>              |
| Evaporation Rate (Butyl Acetate = 1) | No test data available               |
| Flammability (solid, gas)            | Not applicable to liquids            |
| Flammable Limits In Air              | <b>Lower:</b> No test data available |

|                                                         |                                                                                   |
|---------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Vapor Pressure</b>                                   | <b>Upper:</b> No test data available                                              |
| <b>Vapor Density (air = 1)</b>                          | No test data available                                                            |
| <b>Specific Gravity (H2O = 1)</b>                       | 1 <i>Estimated.</i>                                                               |
| <b>Solubility in water (by weight)</b>                  | 0.98 <i>Calculated</i>                                                            |
| <b>Partition coefficient, n-octanol/water (log Pow)</b> | Soluble                                                                           |
| <b>Autoignition Temperature</b>                         | No data available for this product. See Section 12 for individual component data. |
| <b>Decomposition Temperature</b>                        | No test data available                                                            |
| <b>Dynamic Viscosity</b>                                | No test data available                                                            |
| <b>Kinematic Viscosity</b>                              | No test data available                                                            |
| <b>Explosive properties</b>                             | no data available                                                                 |
| <b>Oxidizing properties</b>                             | no data available                                                                 |

## 9.2 Other information

## Section 10. Stability and Reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Polymerization will not occur.

**10.4 Conditions to Avoid:** Exposure to elevated temperatures can cause product to decompose.

**10.5 Incompatible Materials:** Avoid contact with oxidizing materials.

### 10.6 Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials.

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

#### Acute Toxicity

##### 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. May cause central nervous system depression. May cause nausea and vomiting. Signs and symptoms of excessive exposure may include: Facial flushing. Low blood pressure. Irregular heartbeats.

The data presented are for the following material: Isopropyl alcohol. LD50, rat 4,700 - 5,800 mg/kg  
The data presented are for the following material: Isopropyl alcohol. Estimated. Lethal Dose, Humans 100 ml

##### Aspiration hazard

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

##### Dermal

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

The data presented are for the following material: Isopropyl alcohol. LD50, rabbit 13,000 mg/kg

##### Inhalation

In confined or poorly ventilated areas, vapor can readily accumulate and can cause unconsciousness and death. Excessive exposure (400 ppm) to isopropanol may cause eye, nose and throat irritation. Incoordination, confusion, hypotension, hypothermia, circulatory collapse, respiratory arrest and death may follow a longer duration or higher levels. Observations in animals include middle ear lining

damage upon exposure to vapors of isopropanol. However, the relevance of this to humans is unknown

The data presented are for the following material: Isopropyl alcohol. LC50, 4 h, Vapor, rat, female 28,500 ppm

#### **Eye damage/eye irritation**

May cause pain disproportionate to the level of irritation to eye tissues. May cause moderate eye irritation. May cause moderate corneal injury. Vapor may cause eye irritation experienced as mild discomfort and redness. Vapor may cause lacrimation (tears).

#### **Skin corrosion/irritation**

Prolonged contact may cause slight skin irritation with local redness. May cause drying and flaking of the skin.

#### **Sensitization**

##### **Skin**

No relevant information found.

##### **Respiratory**

No relevant information found.

#### **Repeated Dose Toxicity**

Contains component(s) which have been reported to cause effects on the following organs in animals: Liver. Observations in animals include: Lethargy. Kidney effects and/or tumors have been observed in male rats. These effects are believed to be species specific and unlikely to occur in humans. In animals, effects have been reported on the following organs: blood (hemolysis) and secondary effects on the kidney and liver. Human red blood cells have been shown to be significantly less sensitive to hemolysis than those of rodents and rabbits.

#### **Chronic Toxicity and Carcinogenicity**

In long-term animal studies with ethylene glycol butyl ether, small but statistically significant increases in tumors were observed in mice but not rats. The effects are not believed to be relevant to humans. If the material is handled in accordance with proper industrial handling procedures, exposures should not pose a carcinogenic risk to man. Contains component(s) which did not cause cancer in laboratory animals.

#### **Developmental Toxicity**

Isopropanol has been toxic to the fetus in laboratory animals at doses toxic to the mother. Contains component(s) which did not cause birth defects in animals; other fetal effects occurred only at doses toxic to the mother.

#### **Reproductive Toxicity**

In animal studies on component(s), effects on reproduction were seen only at doses that produced significant toxicity to the parent animals. Contains component(s) which did not interfere with reproduction in animal studies.

#### **Genetic Toxicology**

Contains a component(s) which were negative in in vitro genetic toxicity studies. Contains component(s) which were negative in animal genetic toxicity studies.

## **Section 12. Ecological Information**

### **12.1 Toxicity**

#### Data for Component: **Propan-2-ol; isopropyl alcohol; isopropanol**

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), flow-through test, 96 h: 9,640 mg/l

##### **Aquatic Invertebrate Acute Toxicity**

LC50, Daphnia magna (Water flea), static test, 24 h, immobilization: > 1,000 mg/l

##### **Aquatic Plant Toxicity**

NOEC, alga Scenedesmus sp., static test, Growth inhibition (cell density reduction), 7 d: 1,800 mg/l

ErC50, alga Scenedesmus sp., static test, Growth rate inhibition, 72 h: > 1,000 mg/l

##### **Toxicity to Micro-organisms**

EC50; activated sludge: > 1,000 mg/l

**Aquatic Invertebrates Chronic Toxicity Value**

Daphnia magna (Water flea), semi-static test, 21 d, NOEC: 30 mg/l

**Data for Component: 2-Butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve**

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, Oncorhynchus mykiss (rainbow trout), static test, 96 h: 1,474 mg/l

**Aquatic Invertebrate Acute Toxicity**

EC50, Daphnia magna (Water flea), static test, 48 h, immobilization: 1,550 mg/l

**Aquatic Plant Toxicity**

EbC50, Pseudokirchneriella subcapitata (green algae), static test, biomass growth inhibition, 72 h: 911 mg/l

**Toxicity to Micro-organisms**

IC50; Bacteria: &gt; 1,000 mg/l

**Fish Chronic Toxicity Value (ChV)**

Danio rerio (zebra fish), semi-static test, 21 d, NOEC:&gt; 100 mg/l

**Aquatic Invertebrates Chronic Toxicity Value**

Daphnia magna (Water flea), semi-static test, 21 d, reproduction, NOEC: 100 mg/l

**12.2 Persistence and Degradability****Data for Component: Propan-2-ol; isopropyl alcohol; isopropanol**

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

**OECD Biodegradation Tests:**

| Biodegradation | Exposure Time | Method                                                       | 10 Day Window |
|----------------|---------------|--------------------------------------------------------------|---------------|
| 95 %           | 21 d          | OECD 301E Test                                               | pass          |
| 53 %           | 5 d           | EU Method C.6<br>(Degradation:<br>Chemical Oxygen<br>Demand) | pass          |

**Data for Component: 2-Butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve**

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches &gt; 70% biodegradation in OECD test(s) for inherent biodegradability).

**OECD Biodegradation Tests:**

| Biodegradation | Exposure Time | Method         | 10 Day Window |
|----------------|---------------|----------------|---------------|
| 90.4 %         | 28 d          | OECD 301B Test | pass          |

**12.3 Bioaccumulative potential****Data for Component: Propan-2-ol; isopropyl alcohol; isopropanol****Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).**Partition coefficient, n-octanol/water (log Pow):** 0.05 Measured**Data for Component: 2-Butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve****Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).**Partition coefficient, n-octanol/water (log Pow):** 0.81 Measured**12.4 Mobility in soil****Data for Component: Propan-2-ol; isopropyl alcohol; isopropanol****Mobility in soil:** Potential for mobility in soil is very high (Koc between 0 and 50).**Partition coefficient, soil organic carbon/water (Koc):** 1.1 Estimated.**Henry's Law Constant (H):** 3.38E-06 - 8.07E-06 atm\*m3/mole; 25 °C Estimated.**Data for Component: 2-Butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve****Mobility in soil:** Potential for mobility in soil is high (Koc between 50 and 150).**Partition coefficient, soil organic carbon/water (Koc):** 67 Estimated.**Henry's Law Constant (H):** 1.60E-06 atm\*m3/mole Measured

## 12.5 Results of PBT and vPvB assessment

Data for Component: **Propan-2-ol; isopropyl alcohol; isopropanol**

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).

Data for Component: **2-Butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve**

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).

## 12.6 Other adverse effects

Data for Component: **Propan-2-ol; isopropyl alcohol; isopropanol**

This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

Data for Component: **2-Butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve**

This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

Any disposal practice must be in compliance with all local and national laws and regulations. Do not dump into any sewers, on the ground, or into any body of water.

**Treatment and disposal methods of used packaging:** Empty containers should be recycled or otherwise disposed of by an approved waste management facility. **CONTAMINATED PACKAGING:** Any disposal of contaminated packaging and washings must be in accordance with State, Territory and/or Local government regulations. After container has been cleaned and labelling has been removed, empty containers can be sent for recycling or disposal. If the container is to be reconditioned, the reconditioning company should be made aware of the nature of the original contents.

## Section 14. Transport Information

### ROAD & RAIL

|| NOT REGULATED

### OCEAN

|| NOT REGULATED

### AIR

|| NOT REGULATED

**Environmental Hazard:** No

### INLAND WATERWAYS

|| NOT REGULATED

## Section 15. Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Inventory of Existing Commercial Chemical Substances (EINECS)

The components of this product are on the EINECS inventory or are exempt from inventory requirements.

## 15.2 Chemical Safety Assessment

Not applicable.

## Section 16. Other Information

### Hazard statement in the composition section

|      |                                     |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed.               |
| H312 | Harmful in contact with skin.       |
| H315 | Causes skin irritation.             |
| H319 | Causes serious eye irritation.      |
| H332 | Harmful if inhaled.                 |
| H336 | May cause drowsiness or dizziness.  |

### Risk-phrases in the Composition section

|           |                                                               |
|-----------|---------------------------------------------------------------|
| R11       | Highly flammable.                                             |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R36       | Irritating to eyes.                                           |
| R36/38    | Irritating to eyes and skin.                                  |
| R67       | Vapours may cause drowsiness and dizziness.                   |

### Revision

Identification Number: 83308 / 3005 / Issue Date 2012/03/20 / Version: 9.0

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

*Dow Chemical Company Ltd 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.*