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
POLYOX™ WSR N750

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

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

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 - REGULATION (EC) No 1272/2008
This product is not classified as dangerous according to EC criteria.
Classification according to EU Directives 67/548/EEC or 1999/45/EC
This product is not classified as dangerous according to EC criteria.

Additional Information
Safety data sheet available for professional users on request.
2.2 Label elements
Labelling - REGULATION (EC) No 1272/2008
This product is not classified as dangerous according to EC criteria.

2.3 Other Hazards
May form explosive dust-air mixture.

Section 3. Composition/information on ingredients

3.2 Mixture
This product is a mixture.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No. 25322-68-3</td>
<td>—</td>
<td>&gt;= 95.0%</td>
<td>Poly(ethylene oxide)#</td>
<td>Not classified</td>
</tr>
<tr>
<td>EC-No. Polymer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS-No. 112945-52-5</td>
<td>—</td>
<td>&lt;= 3.0%</td>
<td>Fumed silica (generic)#</td>
<td>Not classified</td>
</tr>
<tr>
<td>EC-No. not applicable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS-No. Not available</td>
<td>—</td>
<td>&lt;= 1.0%</td>
<td>Calcium as mixed salts##</td>
<td>Not classified</td>
</tr>
<tr>
<td>EC-No. Not available</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Section 4. First-aid measures

4.1 Description of first aid measures
General advice: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: No emergency medical treatment necessary.

Skin Contact: Wash skin with plenty of water.

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: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

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
No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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: 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. Do not permit dust to accumulate. When suspended in air dust can pose an explosion hazard. Minimize ignition sources. If dust layers are exposed to elevated temperatures, spontaneous combustion may occur. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge.

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. 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. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires. Dust explosion hazard may result from forceful application of fire extinguishing agents. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

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

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. Spilled material may cause a slipping hazard. Material becomes slippery when wet. Use appropriate safety equipment. For additional
information, refer to Section 8, Exposure Controls and Personal Protection. Refer to Section 7, Handling, for additional precautionary measures.

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. Collect with vacuum equipment. Collect in suitable and properly labeled containers. Attempt to neutralize by adding materials such as Soda ash. See Section 13, Disposal Considerations, for additional information.

### Section 7. Handling and Storage

7.1 Precautions for safe handling

**Handling**

**General Handling**: Avoid contact with eyes. Wash thoroughly after handling. No smoking, open flames or sources of ignition in handling and storage area. Good housekeeping and controlling of dusts are necessary for safe handling of product. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Keep away from heat, sparks and flame. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

7.2 Conditions for safe storage, including any incompatibilities

**Storage**

Store in accordance with good manufacturing practices. See Section 10 for more specific information.

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**

<table>
<thead>
<tr>
<th>Component</th>
<th>List</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(ethylene oxide)</td>
<td>AIHA WEEL</td>
<td>TWA Particulate.</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Fumed silica (generic)</td>
<td>Ireland OELV</td>
<td>TWA Respirable dust.</td>
<td>2.4 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Ireland OELV</td>
<td>TWA Total inhalable dust.</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td></td>
<td>UK WEL</td>
<td>TWA Inhalable dust.</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td></td>
<td>UK WEL</td>
<td>TWA Respirable dust.</td>
<td>2.4 mg/m³</td>
</tr>
</tbody>
</table>

#### 8.2 Exposure controls

**Personal Protection**

**Eye/Face Protection**: Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent.

**Skin Protection**: No precautions other than clean body-covering clothing should be needed.
Hand protection: Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.

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 discomfort is experienced, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Particulate filter, type P2.

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

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

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties
Appearance
Physical State Powder
Color White to off-white
Odor Ammoniacal
Odor Threshold No test data available
pH Not applicable
Melting Point No test data available
Freezing Point Not applicable
Boiling Point (760 mmHg) Not applicable
Flash Point - Closed Cup No test data available
Evaporation Rate (Butyl Acetate = 1) not applicable
Flammability (solid, gas) No
Flammable Limits In Air Lower: No test data available
Upper: No test data available
Vapor Pressure No test data available
Vapor Density (air = 1) No test data available
Specific Gravity (H2O = 1) No test data available
Solubility in water (by weight) infinite
Partition coefficient, n-octanol/water (log Pow) No data available for this product.
Autoignition Temperature No test data available
Decomposition No test data available
Temperature
Kinematic Viscosity No test data available
Explosive properties no data available
Oxidizing properties no data available

9.2 Other information
Molecular Weight No test data available

Section 10. Stability and Reactivity

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

10.3 Possibility of hazardous reactions  
Polymerization will not occur.

10.4 Conditions to Avoid:  
Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems. Avoid static discharge. Avoid moisture. Avoid direct sunlight or ultraviolet sources.

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

10.6 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: Carbon dioxide. Alcohols. Ethers. Hydrocarbons. Ketones. Polymer fragments.

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### 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. Typical for this family of materials. Estimated. LD50, rat > 4,000 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. Typical for this family of materials. Estimated. LD50, rabbit > 5,000 mg/kg

**Inhalation**
No adverse effects are anticipated from inhalation. For respiratory irritation and narcotic effects: No specific, relevant data available for assessment.
As product: The LC50 has not been determined.

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

**Skin corrosion/irritation**
Essentially nonirritating to skin.

**Sensitization**

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

**Respiratory**
No relevant data found.

**Repeated Dose Toxicity**
Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Chronic Toxicity and Carcinogenicity**
Did not cause cancer in laboratory animals.

**Developmental Toxicity**
For the major component(s): Did not cause birth defects or any other fetal effects in laboratory animals.

**Reproductive Toxicity**
In animal studies, did not interfere with reproduction.

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

### Component Toxicology - Poly(ethylene oxide)

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Typical for this family of materials. No deaths occurred at this concentration. LC50, 6 h, Aerosol, rat &gt; 2.5 mg/l</th>
</tr>
</thead>
</table>
Section 12. Ecological Information

12.1 Toxicity
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: > 1,000 mg/l

Aquatic Invertebrate Acute Toxicity
LC50, Daphnia magna (Water flea), static test, 48 h, survival: > 100 mg/l

Toxicity to Micro-organisms
IC50; Bacteria, 16 h: > 5,000 mg/l

12.2 Persistence and Degradability

OECD Biodegradation Tests:

<table>
<thead>
<tr>
<th>Biodegradation</th>
<th>Exposure Time</th>
<th>Method</th>
<th>10 Day Window</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1 - 19.9 %</td>
<td>28 d</td>
<td>OECD 301B Test</td>
<td>fail</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential
Bioaccumulation: For this family of materials: No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

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

12.5 Results of PBT and vPvB assessment
This mixture has not been assessed for persistence, bioaccumulation and toxicity (PBT).

12.6 Other adverse effects
No relevant data found.

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.

Section 14. Transport Information

ADR/RID
14.1 UN number
Not applicable
14.2 UN proper shipping name
Proper Shipping Name: NOT REGULATED
14.3 Transport hazard class(es)
Not applicable
14.4 Packing Group
Not applicable
14.5 Environmental hazards
Not considered environmentally hazardous based on available data
14.6 Special precautions for user
Special Provisions: no data available
Hazard identification No: no data available

ADNR / ADN
14.1 UN number
Not applicable

14.2 UN proper shipping name
Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)
Not applicable

14.4 Packing Group
Not applicable

14.5 Environmental hazards
Not considered environmentally hazardous based on available data

14.6 Special precautions for user
no data available

IMDG

14.1 UN number
Not applicable

14.2 UN proper shipping name
Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)
Not applicable

14.4 Packing Group
Not applicable

14.5 Environmental hazards
Not considered environmentally hazardous based on available data

14.6 Special precautions for user
EMS Number: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

ICAO/IATA

14.1 UN number
Not applicable

14.2 UN proper shipping name
Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)
Not applicable

14.4 Packing Group
Not applicable

14.5 Environmental hazards
Not considered environmentally hazardous based on available data

14.6 Special precautions for user
no data available

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)
This product is a polymer according to the definition in Directive 92/32/EEC (7th Amendment to Directive 67/548/EEC) and all of its starting materials and intentional additives are listed in the European Inventory of Existing Commercial Chemical Substances (EINECS) or in compliance with European (EU) chemical inventory requirements.

15.2 Chemical Safety Assessment
Not applicable.
Section 16. Other Information

Hazard statement in the composition section

Revision
Identification Number: 78646 / 3005 / Issue Date 2013/07/10 / Version: 7.0
Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.
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