



Prepared according to Commission Regulation (EU) No 453/2010

Section 1	Identification of substance/mixture and of the company/undertaking
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1.1 Product Identifier**TURBOSET(TM) ULTRA ECO**

Synonyms None

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

Relevant identified uses (see section 7.3 for information on REACH registered uses)

Urethane dispersions

1.3 Details of the supplier of the safety data sheet

Lubrizol Advanced Materials, Inc.

9911 Brecksville Road

Cleveland, Ohio 44141-3247

Telephone (216) 447-5000

E-mail contact EUSDS@lubrizol.com (Lubrizol Safety Data Sheets can be obtained at www.mylubrizol.com)**1.4 Emergency Telephone number**

FOR TRANSPORT EMERGENCY call CHEMTREC (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)

Section 2	Hazards Identification
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2.1 Classification of the substance or mixture

(EC) No 1272/2008

This product does not meet the classification requirements of the current European legislation.
67/548/EC or 1999/45/EC

This product does not meet the classification requirements of the current European legislation.

For a full text of R- and H- phrases: See section 16

2.2 Label elements

(EC) No 1272/2008

Not applicable

Treat symptomatically. Get medical attention.

Keep from freezing

Supplemental label information

None.

2.3 Other hazards

None identified

Section 3	Composition/Information on Ingredients
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3.2 Mixtures

(EC) No 1272/2008

This material contains no ingredients requiring disclosure under regulatory hazard criteria for this jurisdiction. See Section 11 for additional details.
67/548/EC or 1999/45/EC

This material contains no ingredients requiring disclosure under regulatory hazard criteria for this jurisdiction. See Section 11 for additional details.

600, 700, 800 and 900 ECHA List Numbers do not have any legal significance; rather they are purely technical identifiers and are displayed for informational purposes only.

Section 4	First Aid Measures
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4.1 Description of first aid measures**Skin**

Wash with soap and water. Get medical attention if irritation develops

Eyes

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Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

Inhaled

Remove exposed person to fresh air if adverse effects are observed.

Swallowed

Treat symptomatically. Get medical attention.

Advice for first-aid providers

When providing first aid always protect yourself against exposure to chemicals or blood born diseases by wearing gloves, masks and eye protection. After providing first aid wash your exposed skin with soap and water.

4.2 Most important symptoms and effects, both acute and delayed

See section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physician: Treat symptomatically.

Section 5

Fire Fighting Measures

5.1 Extinguishing Media

Water spray, dry chemical, foam. CO2 may be ineffective on large fires.

5.2 Special hazards arising from substance or mixture

Material will not burn until water has been evaporated. Container may rupture on heating. See section 10 for additional information.

5.3 Advice for firefighters

Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots. Water may cause splattering.

Section 6

Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal protective equipment must be worn. Ventilate area if spilled in a confined space or other poorly ventilated area. Material on floor may be slippery.

6.2 Environmental precautions

Prevent entry into sewers and waterways.

6.3 Methods and material for containment and cleaning up

Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Wash spill area with soap and water.

6.4 Reference to other sections

See sections 8 and 13 for additional information.

Section 7

Handling and Storage

7.1 Precautions for safe handling

Keep containers closed when not in use. Avoid eye contact. Avoid repeated or prolonged skin contact. When handling, do not eat, drink, or smoke. Avoid drinking, tasting, swallowing or ingesting this product. Stir well before use. Avoid breathing dust, fume, gas, mist, vapors or spray. Minimize contact with air to reduce contamination with mold, fungus, or other organisms which could cause decomposition or spoilage. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

Pumping Temperature

Not determined

Maximum Handling Temperature

Ambient

Maximum Loading Temperature

Not determined

7.2 Conditions for safe storage, including any incompatibilities

Keep from freezing. Keep container closed when not in use. Do not store in open, unlabeled or mislabeled containers. See section 10 for incompatible materials.

Maximum Storage Temperature

5 - 30 °C, 41 - 86 °F

7.3 Specific end use(s)

End uses are listed in an attached exposure scenario when one is required.

Section 8

Exposure Controls/Personal Protection

8.1 Control parameters

None known

Other Exposure Limits

None known

8.2 Exposure controls

Use material in well ventilated area only. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.

Eye/face protection

Safety Glasses.

Skin protection

Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur wear chemically protective gloves.

No special clothing requirement.

Respiratory Protection

Use respirator with a combination organic vapor and high efficiency filter cartridge if recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

Hygiene Measures

Wash thoroughly after handling this product. Do not eat, drink or smoke when using this product.

Environmental exposure controls

See section 6 for details.

Section 9	Physical and Chemical Properties
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9.1 Information on basic physical and chemical properties

Appearance	Opaque white liquid.
Odour	Acrylate / ammonia
Odour Threshold	Not determined.
pH	7.5 - 9
Melting / Freezing Point	- 0 °C, - 32 °F
Boiling Point	- 100 °C, - 212 °F(Typical)
Boiling Point Range	Not determined.
Flash Point	Not applicable.
Evaporation Rate	< 1 Butyl acetate=1
Flammability (solid,gas)	Not applicable.
Lower flammability or explosive limit	Not determined.
Upper flammability or explosive limit	Not determined.
Vapour Pressure	- 18 mm Hg (20 °C)
Vapour Density	< 1 Air=1
Relative density	1.06 (25 °C)
Bulk Density	- 8.83 Lb/gal, - 1.06 Kg/L
Water Solubility	Dispersible
Other solubilities	Not determined.
Partition coefficient: n-octanol/water	Not determined.
Autoignition Point	Not determined.
Decomposition Temperature	Not determined.
Viscosity	< 4000 Centipoise (25 °C)
Explosive properties	Material does not have explosive properties.
Oxidising properties	Material is a non-oxidising substance.

9.2 Other information

Percent Volatile	63 - 65% By Weight
Percent Solid	- 36% By Weight

The above data are typical values and do not constitute a specification.

Section 10	Stability and Reactivity
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10.1 Reactivity

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Carefully review all information provided in sections 10.2 - 10.6.

10.2 Chemical stability

Material is normally stable at moderately elevated temperatures and pressures.

10.3 Possibility of hazardous reactions

Will not occur.

10.4 Conditions to avoid

Do not freeze.

10.5 Incompatible materials

Strong acids. Bases. Strong oxidizing agents. Acidic conditions will cause the polymer to precipitate out of solution.

10.6 Hazardous decomposition products

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will be formed: nitrogen. Irritating and toxic substances may be emitted upon combustion, burning, or decomposition of dry solids. May also include isocyanates and small amounts of hydrogen cyanide. Nitrogen oxides. Acrylate monomers.

Section 11	Toxicological Information
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11.1 Information on toxicological effects

Acute toxicity

Oral

The LD50 in rats is > 10,000 mg/Kg. Based on data from components or similar materials. Ingestion of this material may cause gastrointestinal irritation.

Dermal

The LD50 in rabbits is > 5000 mg/Kg. Based on data from components or similar materials.

Inhalation

Overexposure to vapors or mist may cause dizziness, headache, nausea, and/or flu-like symptoms. Avoid inhalation of mists or vapors.

Skin corrosion / irritation

May cause slight skin irritation. Does not meet Canadian D2B or EU R38 criteria. Based on data from components or similar materials. Repeated or prolonged skin contact may cause irritation.

Serious eye damage / irritation

May cause eye irritation. Does not meet Canadian D2B or EU R36 criteria. Based on data from components or similar materials. Vapors may cause irritation. At processing or combustion temperatures this product may emit fumes and vapors that cause irritation, possibly severe, to the eyes.

Respiratory Irritation

If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from similar materials. At processing or combustion temperatures this product may emit fumes and vapors that cause irritation, possibly severe, to the respiratory tract, eyes, or skin.

Respiratory or skin sensitization

Skin

No data available to indicate product or components may be a skin sensitizer.

Respiratory

No data available to indicate product or components may be respiratory sensitizers.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

Reproductive Toxicity

No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.

STOT repeated exposure

No data available to indicate product or components present at greater than 1% are chronic health hazards.

Other information

Under decomposition conditions, isocyanates may be generated from this product. Isocyanates can cause skin sensitization and/or respiratory sensitization. Pre-existing skin conditions may be aggravated by prolonged or repeated exposure. Persons with sensitive airways (e.g., asthmatics) may react to vapors.

Section 12	Ecological Information
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12.1 Toxicity

Freshwater fish

Not determined.

Freshwater invertebrates

Not determined.

Algae

Not determined.

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Saltwater fish

Not determined

Saltwater invertebrates

Not determined

Bacteria

Not determined

12.2 Persistence and degradability

Not applicable

12.3 Bioaccumulative potential

Not applicable

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

Not Available

12.6 Other adverse effects

None known

Section 13**Disposal Considerations****13.1 Waste treatment methods**

All disposal practices must be in accordance with local, regional, national and international regulations.

Dispose of packaging or containers in accordance with local, regional, national and international regulations.

Section 14**Transport Information****14.1 UN number****ADR/RID**

Not regulated

ICAO

Not regulated

IMDG

Not regulated

14.2 UN proper shipping name**ADR/RID**

Not regulated

ICAO

Not regulated

IMDG

Not regulated

14.3 Transport hazard class(es)**ADR/RID**

Not regulated

ICAO

Not regulated

IMDG

Not regulated

14.4 Packing group**ADR/RID**

Not regulated

ICAO

Not regulated

IMDG

Not regulated

14.5 Environmental hazards**ADR/RID**

Not applicable

ICAO

Not applicable

IMDG

Not applicable

14.6 Special precautions for users

Review classification requirements before shipping materials at elevated temperatures

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code

Not determined

Section 15**Regulatory Information****15.1 Safety, health and environment regulations / legislation specific for the substance or mixture****Global Chemical Inventories****Australia**

This product requires notification before sale in Australia.

Canada

This product requires notification before sale in Canada.

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China	This product requires notification in China.
EU	To obtain information on the REACH compliance status of this product, please visit Lubrizol.com/REACH , or e-mail us at REACH_MSDS_INQUIRIES@Lubrizol.com
Japan	This product requires notification in Japan.
Korea	This product requires notification before sale in Korea.
New Zealand	All components are in compliance with chemical notification requirements in New Zealand.
Philippines	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
Switzerland	May require notification before sale in Switzerland.
Taiwan	May require notification before sale in Taiwan.
USA	All components of this material are in compliance with Section 5 of TSCA. This material is manufactured under the Polymer Exemption rule.

German water hazard classes

WGK = 2 according to the Water Hazardous Directive, VwVwS, dated May 17, 1999.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

Section 16	Other Information
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Created by

Product Safety and Compliance Department (440-943-1200)

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22 August 2013

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11 December 2013

SDS No.

33936781-2911132-813311-102103

HMIS Codes

Health	Fire	Reactivity
1	1	0

Relevant R Phrases

Not applicable.

Relevant hazard phrases

Not determined.

Revision Indicators

Section: 3 CLP Hazardous Ingredients

Changed: 11 December 2013

Section: 3 EU hazardous ingredients

Changed: 11 December 2013

Section: 15 U.S. TSCA inventory

Changed: 14 November 2013

Section: 16 Relevant hazard phrases

Changed: 11 December 2013

Users Responsibility/Disclaimer of Liability: The information set forth herein is based on our current knowledge, and is intended to describe the product solely with respect to health, safety and the environment. As such, it must not be interpreted as a guarantee of any specific property of the product. As a result, the customer shall be solely responsible for deciding whether said information is suitable and beneficial.