

MATERIAL SAFETY DATA SHEET

ECONATE PP 1010

MSDS Issue Date : 17.05.2016
Revision : 01
Revision Date : 12.01.2017

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING:

Product Name

Econate PP 1010

Use of the Substance / Preparation

Raw Material for Polyurethane Foam Production

Company / Undertaking Details

Expanded Polymer Systems Pvt. Ltd.
C-44/1, T.T.C. Area, M.I.D.C.,
Pawne Village, Vashi,
Navi Mumbai – 400 705

Emergency Contact Numbers

0091 (22) 30914300

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients

Reaction product of polyol and isocyanate
CAS No. Proprietary reaction product of polyol and isocyanate

Other Ingredients Data

Nil

3. HAZARDS IDENTIFICATION:

Inhalation may cause respiratory irritation, breathlessness, chest discomfort. Overexposure may result in bronchitis and bronchial spasms and pulmonary edema. Long term exposure to isocyanates has been reported to cause lung damage. Acute or chronic overexposure to isocyanates may cause sensitization to some individuals, resulting in allergic respiratory reactions including wheezing and shortness of breath.

4. FIRST AID MEASURES:

Eye

Flush eyes with plenty of water. Consult Medical Personnel.

Skin

Wash off in flowing water or shower. Remove contaminated clothing.

Inhaled

Remove to fresh air, if effects occur. Consult medical personnel.

Swallowed

Induce vomiting if large amounts swallowed. Consult medical personnel.

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Advice to Doctor

No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES:

Extinguishing media

Water fog, alcohol foam, carbon dioxide, and dry chemical.

Hazardous Combustion Products

Nitrous gases, fumes/smoke, isocyanate vapour.

Fire /Explosion Hazard

Will support combustion. No known explosion limits. Do not breathe smoke of burning product.

Fire Fighting equipment

Wear fire fighting equipment.

6. ACCIDENTAL RELEASE MEASURES:

Personal Protection

Wear adequate personal protective equipment.

Environment

Do not discharge into waterways, drains or sewers,

Methods of Cleaning Up

Spills should be contained by, and covered with large quantities of sand, earth or any other readily available absorbent material which is then brushed in vigorously to assist absorption. The mixture can then be collected via vacuum into closed but not sealed drums and removed for disposal. Wash area from residues with soap and water and rinse down.

7. HANDLING AND STORAGE:

Handling

Normal precautions should be followed in handling and use.

Storage

Keep container tightly closed; outage containers should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Exposure Standards

None established

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Engineering Controls

Good general ventilation should be sufficient for most conditions.

Personal Protective Equipment

Respiratory Protection

For most conditions, no respiratory protection is needed.

Skin Protection

Use gloves impervious to this material. Wear clean, long sleeved, body-covering clothes. After work and before eating, drinking or smoking wash and clean yourself carefully with soap and water.

Eye / Face Protection

Use Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

| | |
|---------------------------|----------------|
| Clear, viscous liquid | Clear Yellow |
| Boiling Range | Not Applicable |
| Specific Gravity at 25 °C | 1.14 ± 0.03 |
| Viscosity at 25 °C | 190 – 310 cP |
| Flash Point | Above 200 °C |
| Flammability Limits | Not Determined |

10. STABILITY AND REACTIVITY:

Stability

Stable under normal handling and storage conditions.

Incompatibility (Specific materials to avoid)

The product will react with all the substances having hydroxyls, amines, water, bases and acids.

Hazardous decomposition products

Highly unlikely in normal industrial conditions of storage and use.

11. TOXICOLOGICAL INFORMATION:

Acute toxicity

Skin Contact

Essentially non-irritating to skin.

Inhalation

Not expected to present a significant hazard due to physical properties.

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Eye Contact

May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

12. ECOLOGICAL INFORMATION:

Assessment largely or completely based on data for similar material(s).

Mobility and Bioaccumulation Potential

No appreciable volatilization from water to air is expected.

Degradation

None. Material reacts with water to form predominantly insoluble polyureas. Reaction products are not biologically degradable but biologically and chemically inert.

Aquatic Toxicity

Not appreciably toxic to fish, bacteria and invertebrates. Of low toxicity to algae. Marginally toxic to worms and plants.

13. DISPOSAL CONSIDERATIONS:

Action to take for spills/leak:

Spills should be collected to prevent contamination of waterways, drains or sewers.

For large spillages, blanket of protein foam may be needed, or any other suitable foam may be placed over the spill.

Disposal method:

Burn in approved incinerator according to applicable state and/or local government regulations.

Do not dispose off waste product in a landfill due to solubility of the polyol.

14. TRANSPORT INFORMATION:

Storage and Transport:

Keep container tightly closed; outage containers should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture.

Avoid heat above 40 °C, keep separated from foodstuffs.

Packaging and Labeling:

No regulatory requirement.

15. REGULATORY INFORMATION:

This product does not require classification.

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16. OTHER INFORMATION:

No other information.

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