



Approval Date : 05/20/2015
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SAFETY DATA SHEET

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Product Name : Millathane 55, Millathane 55 Premilled
CAS Number : 37285-29-3
Product Description : Polyether Millable Polyurethane

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use(s) : Raw material ingredient in Rubber Products
Restrictions on Use(s) : None known

1.3 Supplier : TSE Industries, Inc.
5260 113th Avenue North
Clearwater, FL 33760
Tel: (727) 573-7676
Fax: (727) 572-0415

SDS Contact : SDSInquiry@TSE-Industries.com

Hours of Operation : Monday-Friday, 8:00 am-5:00 pm EST

1.4 Emergency Telephone : INFOTRAC®
North America: +1-800-535-5053

SECTION 2: Hazards Identification

2.1 Classification of the Substance or Mixture

Product Definition : Mono-constituent substance
Physical Hazards : None
Health Hazards : None

2.2 Label Elements

Hazard Pictogram : None
Signal Word : None
Hazard Statement : No known significant effects or critical hazards

Precautionary Statements

Prevention : Not applicable
Response : Not applicable
Disposal : Not applicable
Supplemental Label Elements : Not applicable

2.3 Hazard Not Otherwise Classified

Asphyxiate : Not applicable
Combustible Dust : Not applicable

SECTION 3: Composition/information on ingredients

Substance/Mixture : Mono-constituent substance

PRODUCT/INGREDIENT NAME	CAS#	%
1,2-Propanediol, 3-(2-propen-1-yloxy)-, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,3-butanediyl) and 1,1-methylenebis[4-isocyanatobezene]	37285-29-3	60 - 100

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of First Aid Measures

- Eye Contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin Contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Protection of First-Aiders** : No action shall be taken involving any personal risk or without suitable training.

4.2 Most Important Symptoms of Exposure

- Potential Acute Symptoms** : No known significant effects.
- Potential Chronic Symptoms** : No known significant effects.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- Notes to Physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Special Treatments** : No specific procedure.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

- Suitable Extinguishing Media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable Extinguishing Media** : None known

5.2 Special Hazards Arising from the Substance or Mixture

- Hazards from the Substance or Mixture** : No specific fire or explosion hazard
- Hazardous Thermal Decomposition Products** : No specific data

5.3 Advice for Firefighters

- Special Protective Actions for Firefighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special Protective Equipment for Firefighters** : Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- Non-Emergency Response Personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through split material. Put on appropriate personal protective equipment.
- Emergency Response Personnel** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "Non-Emergency Response Personnel".
- 6.2 Environmental Precautions** : Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- 6.3 Methods and Materials for Containment and Cleaning Up**
- Small Spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose via a licensed waste disposal contractor.
- Large Spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose via a licensed waste disposal contractor. Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: Handling and Storage

7.1 Handling

- Protective Measures** : Put on appropriate personal protective equipment (see Section 8).
- Handling** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Storage

- : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits

Occupational Exposure Limits have not been established for this material.

- Recommended Monitoring** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

8.2 Exposure Controls

- Engineering Controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or statutory limits.
- Environmental Controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual Protection Measures

- Hygiene Measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: Safety glasses.
Hand Protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body Protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Foot Protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory Protection	:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance

Physical State	:	Solid
Color	:	Light to dark amber
Odor	:	Characteristic [Slight]
Odor Threshold	:	Not available
pH	:	Not available
Melting Point/Freezing Point	:	Not available
Initial Boiling Point & Boiling Range	:	Not available
Flash Point	:	[Product does not sustain combustion.]
Evaporation Rate	:	Not available
Flammability	:	Not available
Upper/Lower Flammability or Explosive Limits	:	Not available
Vapor Pressure	:	Not available
Vapor Density	:	Not available
Relative Density	:	1.04
Solubility(ies)	:	Insoluble in water, soluble in Tetrahydrofuran, Dimethylformamide and chlorinated solvents
Partition Coefficient: n-octano/water	:	Not available
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	>350°F (170°C)
Viscosity	:	Not available

9.2 Other Information : None

SECTION 10: Stability and Reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical Stability	:	The product is stable.
10.3 Possibility of Hazardous Polymerization	:	Under normal conditions of storage and use, hazardous reactions will not occur.

- 10.4 Conditions to Avoid** : No specific data.
- 10.5 Incompatible Materials** : Reactive or incompatible with the following materials: oxidizing materials
- 10.6 Hazardous Decomposition Products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Information on toxicological effects of material is not available. Individual component information and calculations method have been used to evaluate health and physical hazards of the mixture.

Toxicity Data for Aspartic Ester

- Acute Toxicity** : There is no data available.
- Sensitization** : There is no data available.
- Skin Irritation** : There is no data available.
- Eye Irritation** : There is no data available.
- Repeated Dose Toxicity** : There is no data available.
- Mutagenicity** : There is no data available.
- Carcinogenicity** : There is no data available.
- Reproductive Toxicity** : There is no data available.
- Teratogenicity** : There is no data available.
- Specific Target Organ Toxicity (single exposure)** : There is no data available.
- Specific Target Organ Toxicity (repeated exposure)** : There is no data available.
- Aspiration Hazard** : There is no data available.
- Information on the Likely Routes of Exposure** : There is no data available.

Potential Acute Health Effects

- Eye Contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin Contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure

Short Term Exposure

- Potential Immediate Effects** : Not available.
- Potential Delayed Effects** : Not available.

Long Term Exposure

- Potential Immediate Effects** : Not available.
- Potential Delayed Effects** : Not available.

Potential Chronic Health Effects

- General** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental Effects** : No known significant effects or critical hazards.
- Fertility Effects** : No known significant effects or critical hazards.
- Other Information** : None

SECTION 12: Ecological Information

- 12.1 Ecotoxicity : There is no data available.
- 12.2 Persistence and Degradability : There is no data available.
- 12.3 Bioaccumulative Potential : There is no data available.
- 12.4 Mobility in Soil
- Soil/Water Partition Coefficient (K_{oc}) : There is no data available.
- Mobility : There is no data available.
- 12.5 Other Adverse Effects : No known significant effects or critical hazards.

SECTION 13: Disposal Considerations

- 13.1 Waste Treatment Methods
- Methods of Disposal : Dispose product via a licensed waste disposal contractor in accordance with existing federal, state and local environmental laws. Incineration is the preferred method.
- Empty Container Disposal : Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Empty container contains product residue. Do not heat or cur empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residue is removed prior to disposal.
- Special Precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

SECTION 14: Transport Information

- Land Transport (DOT) : Non-regulated
- Sea Transport (IMODG) : Non-regulated
- Air Transport (ICAO/IATA) : Non-regulated
- Additional Transportation Information : None

SECTION 15: Regulatory Information

U.S. EPA CERCLA Hazardous Substances (40CFR302.4) :

Components

None

Reportable quantity

U.S. EPA SARA TITLE III: Section 311/312 Categorizations (40CFR370) : None

U.S. EPA Emergency Planning and Community Right-to-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substances (40CFR 355, Appendix A) : None

U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65)-Supplier Notification Required : This product does not contain a chemical which is listed in Section 313 at or above 'de minimis' concentrations.

U.S. Toxic Substances Control Act : This material is on the TSCA Inventory list.

State Right-to-Know Information

The following chemical is specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<u>Weight %</u>	<u>Components</u>	<u>CAS-No.</u>	<u>State</u>
	None		

California Proposition 65

To the best of our knowledge, this product does not contain chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

SECTION 16: Other information

Abbreviations and Acronyms

ATE	:	Acute Toxicity Estimate
DNEL	:	Derived No Effect Level
ACGIH	:	American Conference of Governmental Industrial Hygienists
CASRN	:	Chemical Abstracts Service Registry Number
IARC	:	International Agency for Research on Cancer
N/A	:	Not Applicable
N/D	:	Not Determined
N/E	:	Not Established
NTP	:	National Toxicology Program
OSHA	:	Occupational Safety & Health Administration
PEL	:	Permissible Exposure Limit
PPE	:	Personal Protective Equipment
STEL	:	Short Term (15 min) Exposure Limit
STP	:	Standard Temperature and Pressure
TLV	:	Threshold Limit Value
TWA	:	Time Weighted Average (8 hr.) Time Weighted Average (8 hr.)

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