

Safety Data Sheet

ELASTOSPRAY 81255 S RESIN

Revision date : 2009/10/09

Version: 2.0

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(30326349/SDS_GEN_US/EN)

1. Product and Company Identification

Company

BASF Polyurethane Foam Enterprises LLC
13630 Watertower Circle
Minneapolis, MN 55441

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

Chemical family:

resin

Synonyms:

Urethane System Resin Component

2. Hazards Identification

Emergency overview

CAUTION:

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

SENSITIZER.

CONTAINS MATERIAL WHICH CAN CAUSE NERVOUS SYSTEM DAMAGE.

CONTAINS MATERIAL WHICH CAN CAUSE KIDNEY DAMAGE.

INGESTION MAY CAUSE GASTRIC DISTURBANCES.

CONTAINS MATERIAL WHICH MAY CAUSE LIVER DAMAGE BASED ON ANIMAL DATA.

State of matter: liquid

Colour: brown

Odour: mild

Potential health effects**Primary routes of exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Ingestion may cause gastrointestinal disturbances.

Irritation / corrosion:

Irritating to respiratory system.

Sensitization:

The chemical structure does not suggest a sensitizing effect.

Chronic toxicity:

Carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Repeated dose toxicity: No other known chronic effects.

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Genotoxicity: The chemical structure does not suggest a mutagenic effect.

Potential environmental effects

Aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Degradation / environmental fate:

Poorly biodegradable.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
56-81-5	< 80.0 %	Polyol
	< 2.0 %	glycerol
108-01-0	< 12.0 %	Flame Retardant
	< 5.0 %	2-dimethylaminoethanol
	< 3.0 %	Surfactant
	< 3.0 %	Catalyst
460-73-1	< 10.0 %	1,1,1,3,3-pentafluoropropane

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

5. Fire-Fighting Measures

Flash point: > 200 °F (closed cup)
Autoignition: Unspecified
Self-ignition temperature: not self-igniting

Suitable extinguishing media:

water, dry extinguishing media, carbon dioxide, foam

Hazards during fire-fighting:

No particular hazards known.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

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Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing.

Environmental precautions:

Do not empty into drains. Do not discharge into the subsoil/soil.

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.

Further information:

High risk of slipping due to leakage/spillage of product.

7. Handling and Storage

Handling

General advice:

Product should not be mixed with air above atmospheric pressure for leak testing or any other purpose. Use dry nitrogen to transfer or leak test equipment pressurized with product.

Protection against fire and explosion:

No explosion proofing necessary.

Storage

General advice:

Product that is frozen and/or tending to sedimentation can be liquified or homogenized by careful application of indirect heat (do not use flames or direct contact with a heat source). Protect from direct sunlight. Keep in a cool, well-ventilated place. Avoid extreme heat. Store protected against freezing. Stored and transported in a cylinder under pressure. Must not be repacked by the customer.

Storage incompatibility:

General advice: Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants.

Storage stability:

Storage temperature: 70 - 80 °F

Protect against moisture. Store in unopened original containers in a cool and dry place.

8. Exposure Controls and Personal Protection

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

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General safety and hygiene measures:

Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapours/mists. Wash soiled clothing immediately.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	mild, amine-like	
Colour:	brown	
pH value:	>= 7	
Freezing point:		Unspecified
Boiling point:		Unspecified
Vapour pressure:		Unspecified
Density:	9.9 lb/USg	(25 °C)
Partitioning coefficient n-octanol/water (log Pow):		Unspecified
Viscosity, dynamic:	600 - 900 mPa.s	(21 °C)
Solubility in water:		soluble

10. Stability and Reactivity

Conditions to avoid:

> 80 degrees Fahrenheit
Avoid moisture. Avoid direct sunlight. Avoid excessive temperatures.

Substances to avoid:

acids, oxidizing agents, isocyanates

Hazardous reactions:

The product is chemically stable.

Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide

Thermal decomposition:

No data available.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating

11. Toxicological information

Acute toxicity

Information on: Fluorocarbons

Assessment of acute toxicity:

Has a narcotic effect. May cause drowsiness and dizziness.

Information on: 2-dimethylaminoethanol

Assessment of acute toxicity:

Of moderate toxicity after short-term skin contact. Of moderate toxicity after single ingestion. Of pronounced toxicity after short-term inhalation.

Information on: glycerol

Assessment of acute toxicity:

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Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Information on: Triethyl Phosphate

Assessment of acute toxicity:

Inhalation causes headache/nausea. Inhalation of vapours leads to irritation of respiratory tract and mucous membranes, headache, nausea, dizziness, vomiting. Ingestion may cause moderate to severe gastric irritation including nausea, vomiting and pain.

Information on: tris(2-chloro-1-methylethyl)phosphate

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Oral:

Information on: Flame Retardant

Type of value: LD50

Species: rat (female)

Value: 630 mg/kg (Guideline 92/69/EEC, B.1)

Irritation / corrosion

Information on: Polyol

Assessment of irritating effects:

Contact may result in skin irritation. Contact may result in eye irritation.

Information on: 2-dimethylaminoethanol

Assessment of irritating effects:

Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

Skin:

Information on: 2-dimethylaminoethanol

Species: rabbit

Result: Corrosive.

Method: OECD Guideline 404

Sensitization

Information on: 2-dimethylaminoethanol

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Information on: Flame Retardant

Guinea pig maximization test

Species: guinea pig

Result: Non-sensitizing.

Literature data.

Repeated dose toxicity

Information on: Triethyl Phosphate

Assessment of repeated dose toxicity:

May cause central nervous system effects.

Information on: tris(2-chloro-1-methylethyl)phosphate

Assessment of repeated dose toxicity:

May affect the liver and kidneys as indicated in animal studies.

The substance may cause damage to the testes after repeated inhalation.

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Other Information:

The product has not been tested. The statement has been derived from products of a similar structure and composition.

12. Ecological Information

Fish

Information on: Flame Retardant

Acute:

OECD 203; ISO 7346; 84/449/EEC, C.1 static

Poecilia reticulata/LC50 (96 h): 30 mg/l

static

Pimephales promelas/LC50 (96 h): 98 mg/l

Aquatic invertebrates

Information on: Flame Retardant

Acute:

DIN 38412 Part 11 Daphnia magna/EC50 (48 h): 131 mg/l

Aquatic plants

Information on: Flame Retardant

Toxicity to aquatic plants:

OECD Guideline 201 static

green algae/No observed effect concentration (72 h): 13 mg/l

Microorganisms

Information on: Flame Retardant

Toxicity to microorganisms:

aquatic

Bacteria/EC50 (30 min): 295 mg/l

aquatic

activated sludge/EC50 (3 h): 784 mg/l

Degradability / Persistence

Biological / Abiological Degradation

Evaluation: Poorly biodegradable.

Other adverse effects:

Do not allow to enter soil, waterways or waste water channels. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statement has been derived from products of a similar structure and composition.

13. Disposal considerations

Waste disposal of substance:

Incinerate in a licensed facility. Dispose of in a licensed facility. Do not discharge substance/product into sewer system.

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Container disposal:

DRUMS:

Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Refer to 40 CFR § 261.7 (residues of hazardous waste in empty containers). Decontaminate containers prior to disposal. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

OSHA hazard category: Chronic target organ effects reported; ACGIH TLV established

EPCRA 311/312 (Hazard categories): Acute; Chronic

State regulations

State RTK

MA, PA
MA, NJ, PA

CAS Number

56-81-5
108-01-0

Chemical name

glycerol
2-dimethylaminoethanol

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

16. Other Information

Recommended use: polyurethane component
Suitable for use in industrial sector: Polymers industry;

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 1

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NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

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Local Contact Information

K_ProdRegs@basf.com

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