

Safety Data Sheet(SDS): PU Foam**1. IDENTIFICATION OF THE CHEMICAL AND SUPPLIER**

Product Name: Polyacrylate Sealant

Recommended use of the chemical and restrictions on use

Recommended Use: Bonding and sealing

Advised Against: At this moment in time we do not have information on use restrictions. They will be included in this document when available.

2. HAZARDS IDENTIFICATION**GHS Classification**

Acute Tox.: Cate.4

Aerosols: Cate.2

GHS Labelling

Hazard pictograms



Signal Word: Warning

Hazard Statements

H223: Flammable aerosol.

H332: Harmful if inhaled.

Precautionary Statements**Prevention**

P210: Keep away from heat/sparks/open flames/hot surfaces.-No smoking.

P211: Do not spray on an open flame or other ignition source.

P251: Pressurized container: Do not pierce or burn, even after use.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.

Response

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Hazard description**Physical and chemical hazards**

Flammable, risk of explosion.

Health hazards

Inhaled: Inhalation of the product during the course of normal handling, these may be harmful.

Ingestion: Due to physical form of this product, considered an unlikely route of entry in commercial/industrial environments.

Skin Contact: Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.

Eye: This product may cause temporary discomfort following direct contact with the eye.

Environmental hazards

Environmental hazard: Please refer to Section 12 of the SDS.

Safety Data Sheet(SDS): PU Foam**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance/mixture**

Mixture

Components

Component	CAS-No.	Concentration(Wt%)	Classification
Dimethyl ether	115-10-6	10-30	Flam. Gas 1 H220; Compressed gas H280
Polyethylene-polypropylene glycol	9003-11-6	≥30	Not classified
Polymethylene polyphenyl polyisocyanate	9016-87-9	≥30	Acute Tox. 4 H332

4. FIRST AID MEASURES**Description of necessary first aid measures**

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen.

Most important symptoms and effects, both acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. May cause an allergic skin reaction, serious eye irritation, damages to organs through prolonged or repeated exposure. Ingestion is likely to be harmful or have adverse effects.

Protection of first-aiders

First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Ensure that medical personnel are aware of the substance involved.

Take precautions to protect themselves and prevent spread of contamination.

Notes to physician

Treat symptomatically and supportively.

Symptoms may be delayed.

5. FIREFIGHTING MEASURES**Extinguishing media**

Suitable extinguishing media	Small Fire: Dry chemical or CO ₂ ; Large Fire: Water spray or fog.
Unsuitable extinguishing media	Don't use water spray directly in the leak or safety equipment, otherwise may cause icing.

Specific hazards arising from the substance or mixture

Flammable: will be easily ignited by heat, sparks or flames.
Will form explosive mixtures with air.
Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
Vapours may travel to source of ignition and flash back.
Development of hazardous combustion gases or vapor possible in the event of fire.
May expansion or decompose explosively when heated or involved in fire.

Advice for firefighters

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
Fight fire from a safe distance, with adequate cover.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

Safety Data Sheet(SDS): PU Foam**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapours and contacting with skin and eye.
Beware of vapours accumulating to form explosive concentrations.
Vapours can accumulate in low areas.
Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
Use personal protective equipment. Keep unprotected persons away.
Follow safe handling advice and personal protective equipment recommendations.
Avoid contact with skin, eyes an

Environmental precautions

Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases.
You will need to determine which regulations are appl

Reference to other sections

See Section 7, Ssection 8, Section 13, Senction 15 for more information.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Avoid inhalation of vapors.
Use only non-sparking tools.
To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
Use explosion proof equipment.
Handling is performed in a well ventilated place.
Wear suitable protective equipment.
Avoid contact with skin and eyes.
Keep away from heat/sparks/open flames/ hot surfaces.
Take care to prevent spills, waste and minimize release to the environment.
Persons susceptible to allergic reactions sho

7.2 Precautions for storage

Keep containers tightly closed.
Keep containers in a dry, cool and well-ventilated place.
Keep away from heat/sparks/open flames/hot surfaces.
Store away from incompatible materials and foodstuff containers.
Storage temperature should not be higher than 30 °C.

7.3 Materials to avoid

Strong oxidizing agents, Organic peroxides, Acids, Foodstuffs, Explosives, Hot, Heat.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure limit values

Component	CAS No.	PC-TWA/ppm	PC-TWA/mg/m3	PC-STEL/ppm	PC-STEL/mg/m3	Country/Region
Dimethyl ether		115-10-6	1000	1920		Latvia
Dimethyl ether		115-10-6	400	766	500 958	New Zealand
Polymethylene polyphenyl polyisocyanate		9016-87-9		0.05	0.05	Germany (DFG)
Polymethylene polyphenyl polyisocyanate		9016-87-9		0.05	0.05	Germany (AGS)
Polymethylene polyphenyl polyisocyanate		9016-87-9		0.05	0.05	Germany (AGS)
Polymethylene polyphenyl polyisocyanate		9016-87-9		0.05	0.05	Germany (DFG)
Dimethyl ether		115-10-6	1000	1900	8000 15200	Germany (AGS)
Dimethyl ether		115-10-6	1000	1885	2000 3770	Denmark
Dimethyl ether		115-10-6	1000	1920		Ireland
Dimethyl ether		115-10-6	400	760	500 950	Australia

Biological limit values

Biological limit values: No data available

Monitoring methods

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. GBZ/T 300.1-GBZ/T 300.160-2017; GBZ/T 300.161-GBZ/T 300.164-2018 Determination of toxic substances in workplace air (Series standard).

Engineering controls

Ensure adequate ventilation, especially in confined areas.
 Ensure that eyewash stations and safety showers are close to the workstation location.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Set up emergency exit and necessary risk-elimination area.

Personal protection equipment

Respiratory protection If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Hand protection Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

Eye protection Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).

Skin and body protection Wear fire/flammable resistant/retardant clothing and antistatic boots. Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygienic measures Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Do not inhale gases / fumes / aerosols.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Foam
Odor	Slightly
Odor threshold	No information available
pH	Not applicable
Melting point/freezing point	No information available
Initial boiling point and boiling range (°C)	≤35
Flash point (°C)	≥23°C, ≤60°C (Closed cup)
Evaporation rate	No information available
Flammability	Flammable
Upper explosive limits[% (v/v)]	No information available
Lower explosive limits[% (v/v)]	No information available
Vapor pressure	No information available
Relative vapour density (Air=1)	No information available
Relative density (Water=1)	0.01-0.04
Solubility (mg/L)	Insoluble
n-octanol/water partition coefficient	No information available
Dynamic viscosity	Not applicable
Particle characteristics	No information available
Explosive properties	Explosive
Oxidizing properties	Non oxidizing

10. STABILITY AND REACTIVITY

Reactivity	Not classified as a reactivity hazard.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	In contact with halogens or interhalogens may cause an explosion.
Possibility of hazardous reactions	Incompatible materials, heat, flame and spark.
Incompatible materials	Halogen, halogen compounds, inorganic acid, sulfur, sulfides and sodium peroxide.
Hazardous decomposition products	No date available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component	CAS-No.	LD50(oral)	LD50(dermal)	LC50(inhalation,4h)
Polyethylene-polypropylene glycol	9003-11-6	5700mg/kg(Rat)	No information available	0.32mg/L(Rat)
Polymethylene polyphenyl polyisocyanate	9016-87-9	49000mg/kg(Rat)	> 9400mg/kg (Rabbit)	0.49mg/L(Rat)

Carcinogenicity

Component	CAS-No.	IARC	NTP
Dimethyl ether	115-10-6	Not Listed	Not Listed
Polymethylene polyphenyl polyisocyanate	9016-87-9	Category 3	Not Listed
Polyethylene-polypropylene glycol	9003-11-6	Not Listed	Not Listed

Others

Skin corrosion/irritation	No further information available
Serious eye damage/irritation	No further information available
Skin sensitization	No further information available
Respiratory sensitization	No further information available
Reproductive toxicity	No further information available
STOT-single exposure	No further information available
STOT-repeated exposure	No further information available
Aspiration hazard	No further information available
Germ cell mutagenicity	No further information available
Reproductive toxicity(additional)	No further information available

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12. ECOLOGICAL INFORMATION
Acute aquatic toxicity

No further relevant information available.

Chronic aquatic toxicity

No further relevant information available.

Persistence and degradability

Polymethylene polyphenyl polyisocyanate	9016-87-9	Low(Half-life = 1 days)	Low(Half-life = 0.24 days)
Polyethylene-polypropylene glycol	9003-11-6	Low(Half-life = 11.88 days)	High(Half-life = 381.96 days)

Bioaccumulative potential

Component	CAS-No.	Bioaccumulative potential	Comments
Polymethylene polyphenyl polyisocyanate	9016-87-9	Low	BCF=15
Polyethylene-polypropylene glycol	9003-11-6	Low	BCF=35

Mobility in soil

Component	CAS-No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Polymethylene polyphenyl polyisocyanate	9016-87-9	Low	376200
Polyethylene-polypropylene glycol	9003-11-6	High	1.435

Results of PBT and vPvB assessment

Component	CAS-No.	Results of PBT and vPvB assessment (according to (EC) No 1907/2006)
Dimethyl ether	115-10-6	not PBT/vPvB
Polymethylene polyphenyl polyisocyanate	9016-87-9	not PBT/vPvB
Polyethylene-polypropylene glycol	9003-11-6	not PBT/vPvB

13. DISPOSAL CONSIDERATIONS
Disposal methods

Waste from residues: Dispose of in accordance with local regulations

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not pierce or burn, even after use.

If not otherwise specified: Dispose of as unused product.

Disposal recommenda: Refer to section waste chemicals and contaminated packaging

14. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

15. OTHER INFORMATION

National Fire Protection Association (U.S.A.)

Health:	0
Flammability:	1
Instability/Reactivity:	1
Special:	NA