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## safety data sheet

### product and company Identification

Chemical family: polyfunctional polyisocyanate

### hazards identification

#### Emergency overview

##### CAUTION:

Danger of skin sensitization on repeated contact  
Irritating to skin  
Ensure adequate ventilation  
Eye wash fountains and safety showers must be easily accessible  
Avoid inhalation of mists/vapors  
Wear Safety glasses with side-shields  
Wear protective clothing  
Avoid contact with the skin, eyes and clothing

##### SENSITIZER.

May cause sensitization by inhalation.

State of matter: liquid  
Color: colorless  
Odor: faint odor

### potential health effects

#### Primary Routes of exposure:

Routes of entry include eye and skin contact, ingestion and inhalation.

#### Sensitization:

No pulmonary sensitization potential was observed in the guinea pig model either after intradermal or inhalative induction with polyisocyanate based on hexamethylene diisocyanate. No sensitization of the respiratory tract as shown in animal studies.

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#### Chronic Toxicity:

**Repeated dose toxicity:** No data available concerning repeated dose toxicity.

#### Signs and symptoms of overexposure:

The most important known symptoms and effects are described in the labeling (see section 2) and /or in section 1.1. Further important symptoms and effects are so far not known.



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### composition / information on ingredients

CAS Number:	Content (W/W):	Hazardous ingredients:
28182-81-2 822-06-0	$\geq 96.0 - \leq 99.0$ % $\geq 0.1 - \leq 3.0$ %	Hexamethylene, 1,6-diisocyanate -, homopolymer 1,6-hexamethylene diisocyanate

### first-aid measures

**General advice:**

Immediately remove contaminated clothing.

**If inhaled:**

If difficulties occur after vapor/aerosol has been inhaled, remove to fresh air and seek medical attention.

**If on skin:**

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

**If in eyes:**

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

**If swallowed:**

Rinse mouth immediately and then drink plenty of water, seek medical attention.

**Note to physician**

**Treatment:** Inhale corticosteroid dose aerosol. Treat according to symptoms (decontamination, vital functions), no known specific antidote, administer corticosteroid dose aerosol to prevent pulmonary edema.

### fire-fighting measures

**Flash point:** > 392 F° (200 °C) (DIN 51758)  
**Autoignition:** > 392 F° (200 °C) (DIN 51794)

**Suitable extinguishing media:**  
dry extinguishing media, foam

**Hazards during fire-fighting:**

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

**Protective equipment for fire-fighting:**

Wear a self-contained breathing apparatus.

**Further information:**

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.



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### accidental release measures

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**Personal precautions:**

Use personal protective clothing.

**Environmental precautions:**

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

**Cleanup:**

Correctly dispose of recovered product immediately.

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).

For large amounts: Pump off product.

### handling and storage

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**Handling**

**Protection against fire and explosion:**

Avoid all sources of ignition: heat, sparks, open flame.

**Storage**

**General advice:**

Keep container tightly closed and in a cool place.

**Storage stability:**

If moisture enters isocyanate containers, CO<sub>2</sub> forms and pressure builds up.



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### exposure controls and personal protection

#### Components with workplace control parameters

1,6-hexamethylene diisocyanate ACGIH TWA value 0.005 ppm ;

#### Personal protective equipment

##### Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect. A NIOSH-certified (or equivalent) organic vapor respirator is preferred for LONG TERM use for industrial applications.

##### Hand protection:

Manufacturer's directions for use should be observed because of great diversity of types., Chemical resistant protective gloves

##### Eye protection:

Safety glasses with side-shields.

##### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid inhalation of mists. Contact with eyes and skin must be avoided. Wash soiled clothing immediately.

### physical and chemical properties

<b>Form:</b>	liquid
<b>Odor:</b>	faint odor
<b>Color:</b>	colorless
<b>pH value:</b>	Not Applicable
<b>Melting Point:</b>	Not Determined
<b>Boiling Point:</b>	Not Determined
<b>Vapor Pressure:</b>	0.0001 mbar 68° F ( 20 °C)
<b>Density:</b>	1.1 g/cm3 68° F ( 20 °C) (DIN 51757)
<b>Relative Density:</b>	1.10
<b>Viscosity, dynamic:</b>	0.7 Pa.s 68° F ( 20 °C) (DIN 53019)
<b>Solubility in water:</b>	Reacts with water to liberate CO2 gas
<b>VOC:</b>	< 5 grams per liter of coating (calculated)



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### stability and reactivity

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**Substances to avoid:**

amines, amine compounds

**Hazardous reactions:**

Reacts with alcohols. Reacts with amines. Reacts with substances which contain active hydrogen. Reacts with water, with formation of carbon dioxide. The formation of gaseous decomposition products builds up pressure in tightly closed containers.

**Decomposition products:**

No hazardous decomposition products if stored and handled as prescribed/indicated.

**Thermal decomposition:**

No decomposition if used correctly.

### toxicological information

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**Acute toxicity**

**Oral:**

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

**Irritation / corrosion**

**Skin:**

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

**Eye:**

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

**Sensitization:**

Buehler test Species: guinea pig

Result: Non-sensitizing.

Guinea pig maximization test

Result: sensitizing

sensitizing effect in animal tests

**Other Information:**

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



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### ecological information

#### Aquatic invertebrates

Acute:  
□ OECD Guideline 202, part 1 static  
Daphnia magna/EL50 (48 h): > 100 mg/l  
Nominal concentration. The product may hydrolyze.  
The test result may be partially due to degradation products.

#### Microorganisms

##### Toxicity to microorganisms:

□ OECD Guideline 209 activated sludge, domestic/EC20 (180 min): approx. 150 mg/l  
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Nominal concentration.

##### Degradability / Persistence Biological / Abiological Degradation

Test method: □ OECD 301B; ISO 9439; 92/69/EEC, C.4-C, activated sludge  
Method of analysis: □ CO<sub>2</sub> formation relative to the theoretical value  
Degree of elimination: 20 - 30 % (28 d)  
Evaluation: □ Poorly biodegradable.

##### Other adverse effects:

Do not release untreated into natural waters. The local regulations on waste-water treatment must be followed. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

### disposal considerations

#### Waste disposal of substance:

Dispose of in a licensed facility. Do not discharge into waterways or sewer systems without proper authorization.

#### Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.



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### transport information

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#### Land Transport

TDG 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

### regulatory Information

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#### Federal Regulations

##### Registration status:

Chemical TSCA, US released w/o restriction on quantity  
TSCA & SPMN approved

##### OSHA Hazard Category:

Hazardous

##### EPCRA 311/312 (Hazard Categories):

Acute

### other information

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#### HMIS Rating

Health 1

Flammability 1

Physical Hazard 0

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe



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The method of hazard communication for is comprised of Product Labels and Material Safety Data Sheets. HMIS ratings are provided by as a customer service. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

The handling of products containing reactive HDI polyisocyanate/prepolymer and/or monomeric HDI requires appropriate protective measures referred to in this MSDS. These products are therefore recommended only for use in industrial or trade (commercial) applications. They are not suitable for use in Do-It-Yourself applications.

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