



Safety Data Sheet

CAS No
Date Issued: 16-03-2021
Ultrathane 500-211

Company Details

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1. Product and Company Identification

<u>Trade / Commercial Name</u>	Ultrathane 500-211		
<u>Chemical Name</u>	Resin solution		
<u>Formula</u>			
<u>Chemical Family</u>	Aliphatic polyisocyanate solution		
<u>Synonyms</u>			
<u>Un No</u>	1866	<u>Hazchem Code</u>	3x
<u>ERG No</u>	127	<u>EAC</u>	53

2. Hazards Identification

Harmful Xn
Contains Hexamethylene-di-isocyanate < 0.5 % (CAS number 822-06-0)
Contains Hexamethylene-di-isocyanate homopolymer a 75 % (CAS number 28182-81-2)
Flammable
Harmful by inhalation and in contact with skin
Contains isocyanates
Fire could produce irritating or poisonous gases.
Runoff from fire-control or dilution water could cause pollution.

3. Composition

<u>Hazardous Components</u>	Hexamethylene-di-isocyanate < 0.5 % (CAS number 822-06-0) Hexamethylene-di-isocyanate homopolymer a 75 % (CAS number 28182-81-2)
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4. First Aid Measures

<u>First Aid Skin</u>	Immediately remove contaminated clothing, including shoes. Wash affected area with soap and plenty of water.
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<u>First Aid Eyes</u>	Flush eyes with water for 15 minutes. Hold eyelids open while washing. Seek medical advice.
<u>First Aid Ingested</u>	Do not induce vomiting. Rinse mouth. Seek medical advice.
<u>First Aid Inhalation</u>	Remove to fresh air. In case of irritation of the respiratory tract, seek medical advice.

5. Fire Fighting Measures

SMALL FIRES: Dry chemical, CO₂, Halon, or standard foam.

LARGE FIRES: Water spray, fog or standard foam is recommended.

In case of fire, formation of carbon monoxide, nitrogen oxide, isocyanate vapour and traces of hydrogen cyanide is possible.

Move container from fire area if you can do so without risk.

Keep unnecessary people away; isolate hazard area and deny entry.

Stay upwind; keep out of low areas.

Self-contained breathing apparatus (SCBA) should be worn.

6. Accidental Release Measures

Do not empty into drains.

Remove sources of fire, ensure adequate ventilation / exhaust ventilation.

Keep unauthorized persons away.

Remove mechanically; cover remainders with wet, absorbent material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand).

After approx. one hour transfer to waste container and do not seal (evolution of CO₂!). Keep damp in a safe ventilated area for several days.

Further disposal by incineration.

7. Handling And Storage

Keep container dry and tightly closed in a cool, well ventilated place.

Avoid contact with skin and eyes.

Ensure adequate ventilation or exhaust ventilation in working areas.

Exhaust ventilation necessary if product is sprayed.

Avoid exposure to temperatures above 50°C.

Explosion protection required.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits Value for isocyanates:

TWA OEL-CL 0,005 ppm

SHORTTERM OEL-CL 0,02 ppm

Sensitiser

Controls

The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure.

The best protection is to enclose operations and/or provide

local exhaust ventilation at the site of chemical release.
Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside.

Supply sufficient replacement air to make up for air removed.

Have a safety shower/eye wash fountain readily available in the immediate work area.

Personal Protection

If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles & face shield, boots, impervious gloves, coveralls & respiratory protection.

An air fed mask or a combination of charcoal and particulate filter is recommended.

In case of hypersensitivity of the respiratory tract (e.g. asthmatics and those who suffer from chronic bronchitis) it is inadvisable to work with the product.

Have appropriate equipment available for use in emergencies.

Keep away from foodstuffs, drinks and tobacco.

Wash hands before breaks and at end of work.

Keep working clothes separate.

Take off immediately all contaminated clothing.

9. Physical & Chemical Properties

Yellowish liquid, with a solvent smell.

Density: 1.04 - 1.11 g/ml at 25°C.

Viscosity: 150 - 300 mPa at 25°C.

Flash point: ca. 38°C.

Setting point: -48°C

Initial boiling point: 145°C

10. Stability And Reactivity

Conditions to Avoid

Avoid exposure to temperatures above 50°C.

Incompatible Materials

Exothermic reaction with amines and alcohols. Reacts slowly with water, with evolution of carbon dioxide; in closed containers pressure build up may occur.

Other

11. Toxicological Information

No information on the product is available. However, aromatic hydrocarbons irritate the skin and mucous membranes and are narcotic in high concentrations.

Overexposure entails the risk of concentration-dependent irritating effects on eyes, nose, throat and respiratory tract.

Delayed appearance of the symptoms and hyper-sensitivity (difficulty in breathing, coughing and asthma) are possible.

Allergics and asthmatics as well as people prone to respiratory problems should exercise extreme caution when working with this material.

12. Ecological Information

No ecological problems are expected when the product is handled and used with due care.

13. Disposal Considerations

Disposal Method Product Chemical residues count as special waste. We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal Method Packaging Disposal in accordance with local legal provisions.

14. Transport Information

<u>UN No</u>	1866	<u>Hazchem Code</u>	3x
<u>ERG No</u>	127	<u>EAC</u>	53
<u>ARD/RID Class</u>	3	<u>ARD/RID Hazard ID No</u>	31C
<u>IMDG-Shipping Name</u>	RESIN SOLUTION		
<u>IMDG Code</u>	3.3	<u>IMDG-Packaging Group</u>	III
<u>Marine Pollutant</u>	No		
<u>Class</u>	Class: 3 Flammable Liquid Group: III		
<u>Subsidiary Risks</u>	None		

15. Regulatory Information

<u>EEC Hazard Classification</u>	3
<u>Risk Phases</u>	Flammable. Harmful by inhalation, in contact with skin and if swallowed.
<u>Safety Phases</u>	Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Use only in well ventilated areas.
<u>National Legislation</u>	National Road Traffic Act 1996 (Act 93 of 1996) Occupational Health and Safety Act 1993 (Act 85 of 1993) Hazardous Substances Act 1973 (Act 15 of 1973)

16. Other Information

Reason for alteration: General update

This document has been drafted with reasonable regard to the information available to us, and as accurately as is reasonably practicable.

It characterizes the product with regard to the appropriate safety precautions.

It does not represent a guarantee of the properness of the product.

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Revision No.: 3

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All information is given in good faith but without guarantee in respect of accuracy & no responsibility is accepted for errors or omissions or the consequences thereof.
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