

MATERIAL SAFETY DATA SHEET

The Robex Group
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SECTION 1. IDENTIFICATION OF SUBSTANCE/ PREPARATION AND COMPANY

TOUGHSEAL

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SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:	Aliphatic poly isocyanate			
Ingredients	CAS No.	Hazard Symbols	R-Phrases	Concentration
1-methoxypropylacetate-2/ xylene 1:1			R18	70%

SECTION 3. HAZARDS IDENTIFICATION

Exothermic reaction with amines and alcohols, reacts slowly with water forming CO₂, in closed containers risk of bursting due to increase of pressure.

SECTION 4. FIRST AID MEASURES

Immediate Treatment:	
Eye contact:	Rinse carefully and fully with water, seek medical attention.
Skin contact:	Wipe off and wash thoroughly with soap and water.
Ingestion:	In case of irritation of the respiratory tract or swallowing, consult a doctor.

SECTION 5. FIRE FIGHTING MEASURES

Special Hazards:	
Protective equipment:	Wear self contained breathing apparatus.
Extinguishing media:	Extinguishing powder, CO ₂ or halogenated hydrocarbons, in case of large fires use foam and water spray.
Extinguishing agents prohibited:	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal protection:	Wear suitable protective clothing, gloves and goggles.
Environmental precautions:	Do not empty into drains.
Methods for cleaning:	Cover spillage with absorbent material (eg. sand, sawdust). After one hour transfer to waste container and do not seal (evolution of CO ₂). Keep in a safe ventilated area for several days.
Additional information:	After above waste may be incinerated in a suitable facility provided local regulations are observed.

SECTION 7. HANDLING AND STORAGE

Safe handling advice:	Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of work. Keep working clothes separate. Take off contaminated clothes immediately.
Storage:	Keep container dry and tightly closed in a well ventilated area. Avoid exposure to temperatures above 50°C.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection:	Required in poorly ventilated working areas or whilst spraying.
Eye protection:	Goggles.
Hand protection:	PVC/Rubber gloves.
Skin protection:	Wear suitable protective clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.	
Colour:	Yellowish.	
Odour:	Smell of solvent.	
<u>Safety Relevant Data</u>		
Boiling temperature:	140°C.	
Flash point:	40°C.	
Density:	1.08 gm/cm ³ at 20°C.	
Ignition temp.	460°C.	
Explosive limits:	Xylene : lower : 1.0% by vol.	upper: 8.0% by vol.
	1-methoxypropylacetate-2 : lower : 1.5% by vol.	upper: 10.8% by vol.

SECTION 10. STABILITY AND REACTIVITY

Materials to avoid:	Amines and alcohols, reacts slowly with water giving CO ₂ .
Hazardous decomposition products:	No hazardous decomposition products when handled and stored correctly.

SECTION 11. TOXICOLOGICAL INFORMATION

General information about acute or other toxicities:	LD50 oral, rat: >5,000 mg/Kg Skin and mucous membrane compat. rabbit: Skin 24 hours exposure - non irritant. Eyes slight irritation for a short time.
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Aromatic hydrocarbons such as Xylene, irritate the skin and mucous membranes and are narcotic if inhaled at high concentrations.
Experience with Human Beings: Over-exposed, especially during spraying operations without the necessary precautions, entails a risk to the eyes, nose and throat, and respiratory tract. Hyper sensitive persons may suffer even at low concentrations. In case of longer contact with the skin, tanning and irritating effects are possible.

SECTION 12. ECOLOGICAL INFORMATION

Additional information about ecology:	No results from ecotoxicological test are available.
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SECTION 13. DISPOSAL CONSIDERATIONS

Packaging: Empty containers may be disposed of after neutralising any remaining product with a mixture of isopropanol, ammonia and water.
Product: May be incinerated in a suitable facility providing the local and national regulations are observed.

SECTION 14. TRANSPORT INFORMATION

IMCO Class: 3.3
UN No: 1866
Flammable/flash point + 40°C / irritating to skin and eyes / keep dry / keep away from foodstuffs.

SECTION 15. REGULATORY INFORMATION

Classification according to EEC Directives.
Classification: Flammable.
Hazard Labels:
R-Phrases: R10/18
S-Phrases: S16/23/33/38
Hazardous ingredients: isophorone diisocyanate (exposure must not exceed 0.02 ppm up to 8 times per shift).
Xylene (exposure must not exceed 200 ppm up to 4 times per shift).

SECTION 16. OTHER INFORMATION

The information contained in this data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) Regulations. It does not constitute the user's own assessment of workplace risks are required by other health and safety legislation. The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulations. The information contained herein is based on the current state of our knowledge and is intended to describe products from the point of view of safety requirements and thus should not be construed as guaranteeing specific properties.

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