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SAFETY DATA SHEET

according to Regulation (EU) No. 1907/2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : **MD-22 Part B**

Chemical Name (REACH Registration): Hexamethylene-1,6-diisocyanate homopolymer

REACH Registration Number: 01-2119488934-20-0000

Relevant identified uses of the substance or mixture and uses advised against

Use: Hardener for coating materials or adhesives for industrial and trade applications
Identified uses according to Regulation (EU) No. 1907/2006:
- Manufacture of substance
- Formulation
- Industrial end use
- Professional end use

Uses advised against: Not suitable for use in homeworker (DIY) applications.

Company:
SIA «WMT Baltic»
166b A. Deglava str., Riga, LV-1021
VAT Reg. Nr. LV40003400148
Tel.: 67 800 830, 67 800 833
Fax: 67 800 831, 67 800 832
Bank: AS «SWEDBANK»
Nor. konts: LV15 HABA 0551 0073 03071
S.W.I.F.T: HABALV22
e-mail: office@wmt.lv
http://www.wmt.lv

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (1272/2008/CE):
Acute toxiciti,Inhalative,Category 4 (H332)
Sensitization of the skin, Category 1 (H317)
Specific target organ toxicity (single exposure), category 3 (H335)

Classification (2006/121/EC,1999/45/EC):
Harmful by inhalation.
May cause sensitization by skin contact.
Irritating to respiratory system.

Label elements

Hazardours components which must be listed on the labels
hexamethylene-1,6-diisocyanate homopolymer
Identification no 28182-81-2

Labelling(1272/2008/CE)

Warning

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Hazard statements:
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Precautionary ststements:
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/ eye protection/ face protection.
P302+P352 IF ON SKIN:Wash with plenty of soap and water.
P304+P340 IF INHALED:Remove victim to fresh air and keep at rest iv a position comfortable for breathing.
P333+P313 if skin irritation or rash occurs:Get medical advice/attention.

Labelling(2006/121/EC):

Labelling according to Directive 2006/121:
Xn Harmful

hexamethylene-1,6-diisocyanate homopolymer

R-phrase(s)
R20 Harmful by inhalation.
R37 Irritating to respiratory system.
R43 May cause sensitization by skin contact.

S-phrase(s)
S24 Avoid contact with skin.
S37 Wear suitable gloves.

3.COMPOSITION/INFORMATION ON INGREDIENTS

Type of product: Substance

hexamethylene-1,6-diisocyanate Homopolymer
Hazardours components
hexamethylene-1,6-diisocyanate homopolymer
Concentration[wt.-%] : ca. 100
REACH Registration Number : 01-2119488934-20-0000
CAS-No : 28182-81-2
Classification(1272/2008/CE):Acute Tox. 4 Inhalative H332 Skin Sens. 1 H317 STOT SE 3 H335
Classification (67/548/EEC):Xn R20 Xi R37 Xi R43
Classification/labelling according to Directive 2006/121

This contains:
Hexamethylene-1,6-diisocyanate
Concentration[wt.-%]:ca. 0,3
REACH Registration Number:01-2119457571-37-0000
CAS-No :822-06-0
EINECS-No :212-485-8
Index-No 615-011-00-1
Classification(1272/2008/CE) Acute Tox. 4 Oral H302 Acute Tox. 1 Inhalative H330 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Sens. Resp. 1 H334 Skin Sens. 1 H317 STOT SE 3 H335
Specific htreshold concentration(GHS):
Sens. Resp, 1 H334 >= 0,5%
Skin Sens. 1 H317 >=0,5%
Classification (67/548/EEC): T R23 Xi R36/37/38 R42/43
Specific threshold concentration
Xn R20, R42/43 0,5-<2%
T R23, R42/43 2-<20%
T R23, R36/37/38, R42/43 >= 20%

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Exposure scenarios are not required for the impurities of the substance according to article 3(1) of Requlation(EC) No 1907/2006 mentioned above.

4. FIRST AID MEASURES

Description of first aid measures
General advice: Take off all contaminated clothing immediately.
If inhaled: Take the person into the fresh air and keep him warm, let him rest; if there is difficulty in breathing, medical advice is required.
In case of skin contact: In case of skin contact wash affected areas thoroughly with soap and plenty of water. Consult a doctor in the event of a skin reaction.
In case of eye contact: Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist.
If swallowed: DO NOT induce the patient to vomit, medical advice is required.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO2), Foam, extinguishing powder, in cases of larger fires, water spray should be used.
Unsuitable extinguishing media: High volume water jet
Special hazards arising from the substance or mixture:
Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanate vapors and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.
Advice for fire-fighters:
During fire-fighting respirator with independent air-supply and airtight garment is required. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Put on protective equipment (see section 8). Keep away from sources of ignition. Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.
Environment related measures: Do not allow to escape into waterways, wastewater or soil.
Methods and material for containment and cleaning up: Take up with absorbent for chemicals or, if necessary with dry sand and store in closed containers.
Reference to other sections: For further disposal measures see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling:
Provide sufficient air exchange and/or exhaust in work rooms. Exhaust ventilation necessary if product is sprayed.
The threshold limit values noted in Chapter 8 must be monitored. In all areas where isocyanate aerosols and/or vapor concentrations are produced in elevated concentrations, exhaust ventilation must be provided in such a way that the workplace exposure limits (WEL) is not exceeded. The air should be drawn away from the personnel handling the product
The personal protective measures described in Chapter 8 must be observed. The precautions required in the handling of isocyanates must be taken. Avoid contact with skin and eyes and the inhalation of vapor.
Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at end of work and use skin-protecting ointment. Keep working clothes separately. Take off all contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities:
Keep container dry and tightly closed in a cool and well ventilated place. Further information on the storage conditions which must be observed to preserve quality can be found in our product information sheet.

VCI storage class (VCI = German Association of the Chemical Industry): 10

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Substance	CAS-No.	Basis	Type	Value	Ceiling Limit Value	Remarks
Hexamethylene-1,6-diisocyanate	822-06-0	TRGS 900	TLV	0,005ppm 0,035 mg/m^3	2	
Hexamethylene-1,6-diisocyanate	822-06-0	TRGS 900	STEL FAC		1	Substance listed with both Peak factor is suplied with the AGW values
Hexamethylene-1,6-diisocyanate	822-06-0	TRGS 900	STEL CL			Category I:substances for which the localized effect has an assigned OEL respiratory passages

Exposition assessment value (EBW) per TGRS 430:Polyisocyanate content (HDI oligomers and/or prepolymers) 100 %. Use an exposition assessment value of 0,35 mg/m³.

Derived No Effect Level (DNEL) or Derived Minimal Effect Level (DMEL):
hexamethylene-1,6-diisocyanate homopolymer
Worker (short-term):
DNEL Dermal - local effects:x
No quantitative risk assessment possible. Most sensitive endpoint: Sensitisation (skin)
DNEL Inhalation - local effects: 1 mg/m^3 air
Most sensitive endpoint: Irritation (respiratory tract)
Worker (long-term):
DNEL Dermal - local effects:
No quantitative risk assessment possible. Most sensitive endpoint: Sensitisation (skin)
DNEL Inhalation - local effects: 0,5 mg/m^3 air
Most sensitive endpoint: Irritation (respiratory tract)

Predicted No Effect Concentration (PNEC):
hexamethylene-1,6-diisocyanate homopolymer
Freshwater: 0,199 mg/l
Marine water: 0,0199 mg/l
Fresh water sediment: 44551 mg/kg dry weight
Marine sediment: 4455 mg/kg dry weight
Soil: 8884 mg/kg dry weight
STP (sewage-treatment plant): 100 mg/l
Oral:
Not relevant

Exposure controls
Respiratory protection:
Respiratory protection required in insufficiently ventilated working areas and during spraying. Recommendations regarding respiratory protection can be found in the individual exposure scenarios in the appendix.
In case of hypersensitivity of the respiratory tract and skin (e.g. asthmatics and those who suffer from chronic bronchitis and chronic skin complaint) it is inadvisable to work with the product.
Hand protection:
Suitable materials for safety gloves; EN 374:
Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.
Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.
Laminate glove - PE/EVAL/PE; breakthrough time >=480 min.
Recommendation: contaminated gloves should be disposed of.
Eye protection:
Wear eye/face protection.
Skin and body protection:
Wear suitable protective clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	liquid	
Colour:	colourless	
Odour:	slight inherent odour	
Odour Threshold:	not established	
pH:	not applicable	
Melting point/range:	not measurable	
Boiling point/boiling range:	not established	
Flash point:	ca. 193 °C at 1.013 hPa	DIN EN 22719
Evaporation rate:	not established	
Flammability (solid, gas):	not applicable	
Burning number:	not applicable	
Vapour pressure:	< 0,00001 hPa at 20 °C	EG A4
Vapour pressure of ingredients:		
Hexamethylene-1,6-diisocyanate	ca. 0,007 hPa at 20 °C	
Vapour density:	not established	
Density:	ca. 1,15 g/cm^3 at 20 °C	DIN 51757
Miscibility with water:	immiscible at 15 °C	
Surface tension:	ca. 46,5 mN/m at 20 °C	
Partition coefficient (n−octanol/water):	log Pow: ca. 8,38 (value calculated)	
Autoignition temperature:	not applicable	
Ignition temperature:	ca. 440 °C	DIN 51794
Decomposition temperature:	ca. 150 °C	
Viscosity, dynamic:	ca. 958 mPa.s at 20 °C	DIN 53019
Flow time:	ca. 96 s at 20 °C at 6 mm nozzle	ISO 2431
Explosive properties:	Not explosive	
Dust explosion class:	not applicable	
Oxidising properties:	not established	
Other information:	The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.	

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions: Exothermic reaction with amines and alcohols; reacts slowly with water forming CO2, in closed containers risk of bursting owing to increase of pressure.
Hazardous decomposition products: No hazardous decomposition products when stored and handled correctly.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity, oral:
hexamethylene-1,6-diisocyanate homopolymer
LD50 rat, female: >= 5.000 mg/kg
Method: OECD Test Guideline 423
Acute toxicity, dermal:
hexamethylene-1,6-diisocyanate homopolymer
LD50 rat, male/female: > 2.000 mg/kg
Method: OECD Test Guideline 402
Studies of a comparable product.
LD50 rabbit, male/female: > 2.000 mg/kg
Studies of a comparable product.
Acute toxicity, inhalation:
hexamethylene-1,6-diisocyanate homopolymer
LC50 rat, female: 0,390 mg/l, 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

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Toxicological studies of a comparable product.
The substance was tested in a form (i.e. specific particle size distribution) that is different from the forms in which the substance is placed on the market and in which it can reasonably be expected to be used. Based on the “split-entry” concept and available data on particle size during end-use of the substance a modified classification for acute inhalation toxicity is justified.
Converted acute toxicity point estimate 1,5 mg/l
Test atmosphere: dust/mist
Method: Expert judgement
Assessment: Harmful if inhaled.

Primary skin irritation:
hexamethylene-1,6-diisocyanate homopolymer
Species: rabbit
Result: slight irritant
Classification: No skin irritation
Method: OECD Test Guideline 404

Primary mucosae irritation:
hexamethylene-1,6-diisocyanate homopolymer
Species: rabbit
Result: slight irritant
Classification: No eye irritation
Method: OECD Test Guideline 405

Sensitisation:
hexamethylene-1,6-diisocyanate homopolymer
Skin sensitization (local lymph node assay (LLNA)):
Species: mouse
Result: positive
Classification: May cause sensitization by skin contact.
Method: OECD Test Guideline 429
Respiratory sensitization
Classification: No classification according to EC Directives 2006/121/EC or 1999/45/EC as respiratory sensitizer.
No pulmonary sensitisation observed in animal tests.
No pulmonary sensitisation potential was observed in guinea pigs after either intradermal or inhalative induction with polyisocyanate based on isophorone diisocyanate.

Subacute, subchronic and prolonged toxicity:
hexamethylene-1,6-diisocyanate homopolymer
NOAEL: 3,3 mg/m^3 air
Application Route: Inhalative
Species: rat, male/female
Dose Levels: 0 - 0,5 - 3,3 - 26,4 mg/m^3
Exposure duration: 90 d
Frequency of treatment: 6 hours a day, 5 days a week
Test substance: as aerosol
Method: OECD Test Guideline 413
Toxicological studies of a comparable product.
Evidence of damage to organs other than the organs of respiration was not found.

Carcinogenicity:
hexamethylene-1,6-diisocyanate homopolymer
No data available.

Reproductive toxicity/Fertility:
hexamethylene-1,6-diisocyanate homopolymer
Available data show no indications for reproductive toxicity.

Reproductive toxicity/Teratogenicity:
hexamethylene-1,6-diisocyanate homopolymer
Animal experiments on structurally similar compounds showed no indication of specific reproductive toxicity.

Genotoxicity in vitro:
hexamethylene-1,6-diisocyanate homopolymer

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Test type: Salmonella/microsome test (Ames test)
Metabolic activation: with/without
Result: No indication of mutagenic effects.
Method: OECD Test Guideline 471
Test type: Point mutation in mammalian cells (HPRT test)
Metabolic activation: with/without
Result: negative
Method: OECD Test Guideline 476
Toxicological studies of a comparable product.
Test type: Chromosome aberration test in vitro
Test system: Chinese hamster V79 cell line
Metabolic activation: with/without
Result: negative
Method: OECD Test Guideline 473
Toxicological studies of a comparable product.
STOT evaluation – one-time exposure:
hexamethylene-1,6-diisocyanate homopolymer
Route of exposure: Inhalative
May cause respiratory irritation.
STOT evaluation – repeated exposure:
hexamethylene-1,6-diisocyanate homopolymer
Based on available data, the classification criteria are not met.
Aspiration toxicity:
hexamethylene-1,6-diisocyanate homopolymer
Based on available data, the classification criteria are not met.
CMR Assessment:
hexamethylene-1,6-diisocyanate homopolymer
Carcinogenicity: Based on available data, the classification criteria are not met.
Mutagenicity: In vitro tests did not show mutagenic effects. Based on available data, the classification criteria are not met.
Teratogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity/Fertility: Based on available data, the classification criteria are not met.
Toxicology Assessment:
hexamethylene-1,6-diisocyanate homopolymer
Acute effects: Harmful if inhaled.
Sensitization: May cause sensitization by skin contact.
Additional information:
Special properties/effects: Over-exposure, especially when spraying coatings containing isocyanate without the necessary precautions, entails the risk of concentration-dependent irritating effects on eyes, nose throat, and respiratory tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may suffer from these effects even at low isocyanate concentrations, including concentrations below the UK Workplace Exposure Limit (WEL).
Prolonged contact with the skin may cause tanning and irritant effects.
Animal tests and other research indicate that skin contact with diisocyanates can play a role in causing isocyanate sensitization and respiratory reaction.

12. ECOLOGICAL INFORMATION

Do not allow to escape into waterways, wastewater or soil.
Toxicity
Acute Fish toxicity:
hexamethylene-1,6-diisocyanate homopolymer
LC50 > 100 mg/l
Species: Danio rerio (zebra fish)
Exposure duration: 96 h
Method: Directive 67/548/EEC.
Sample preparation on account of the reactivity of the substance with water:
Ultra turrax: 60 sec. 8000 rpm; 24h magnetic stirrer; Filtration.

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Acute toxicity for daphnia:
hexamethylene-1,6-diisocyanate homopolymer
EC50 > 100 mg/l
Species: Daphnia magna (Water flea)
Exposure duration: 48 h
Method: Directive 67/548/EEC.
Sample preparation on account of the reactivity of the substance with water:
Ultra turrax: 60 sec. 8000 rpm; 24h magnetic stirrer; Filtration.
Acute toxicity for algae:
hexamethylene-1,6-diisocyanate homopolymer
ErC50 199 mg/l
Test type: Growth inhibition
Species: scenedesmus subspicatus
Exposure duration: 72 h
Method: Directive 67/548/EEC.
Sample preparation on account of the reactivity of the substance with water:
Ultra turrax: 60 sec. 8000 rpm; 24h magnetic stirrer; Filtration.
Acute bacterial toxicity:
hexamethylene-1,6-diisocyanate homopolymer
EC50 > 10.000 mg/l
Test type: Respiration inhibition
Species: activated sludge
Exposure duration: 3 h
Method: EG-RL 88/302/EEC
Ecotoxicology Assessment:
hexamethylene-1,6-diisocyanate homopolymer
Acute aquatic toxicity: Based on available data, the classification criteria are not met.
Chronic aquatic toxicity: There is no evidence of a chronic aquatic toxicity.
Impact on Sewage Treatment: Because of the low bacterial toxicity, there is no risk of an adverse effect on the performance of biological waste water treatment plants.
Persistence and degradability
Biodegradability:
hexamethylene-1,6-diisocyanate homopolymer
Test type: aerobic
Biodegradation: 2 %, 28 d, i.e. not readily degradable
Method: Directive 67/548/EEC.
Ecotoxicological studies of the product
Test type: aerobic
Biodegradation: 0 %, 28 Days, i.e. not inherently degradable
Method: OECD Test Guideline 302 C
Ecotoxicological studies of the product
Stability in water:
hexamethylene-1,6-diisocyanate homopolymer
Test type: Hydrolysis
Half life: 7,7 h at 23 °C
Method: OECD Test Guideline 111
The substance hydrolyzes rapidly in water.
Studies of a comparable product.
Photodegradation:
hexamethylene-1,6-diisocyanate homopolymer
Test type: Phototransformation in air
Temperature: 25 °C
sensitizer: OH-radicals
Half-life indirect photolysis: 11,7 h
Method: SRC - AOP (calculation)
After evaporation or exposure to the air, the product will be rapidly degraded by photochemical processes.
Test type: Phototransformation in air

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Temperature: 25 °C
sensitizer: OH-radicals
Half-life indirect photolysis: 3,1 h
Method: SRC - AOP (calculation)
After evaporation or exposure to the air, the product will be rapidly degraded by photochemical processes.
Studies of hydrolysis products.
Volatility (Henry's Law constant):
hexamethylene-1,6-diisocyanate homopolymer
Calculated value = < 0,000001 Pa*m3/mol at 25 °C
Method: Bond-method
The substance has to be scored as non-volatile from water.
Calculated value = < 0,000001 Pa*m3/mol at 25 °C
Method: Bond-method
The substance has to be scored as non-volatile from water.
Studies of hydrolysis products.
Bioaccumulative potential
Bioaccumulation:
hexamethylene-1,6-diisocyanate homopolymer
Bioconcentration factor (BCF): 706,2
Method: (calculated)
The substance hydrolyzes rapidly in water.
An accumulation in aquatic organisms is not to be expected.
Bioconcentration factor (BCF): 10,11
Method: (calculated)
An accumulation in aquatic organisms is not to be expected.
Studies of hydrolysis products.
Partition coefficient (n−octanol/water):
log Pow: ca. 8,38(value calculated)
Mobility in soil
Distribution among environmental compartments:
hexamethylene-1,6-diisocyanate homopolymer
Adsorption/Soil
not applicable
Surface tension: ca. 46,5 mN/m at 20 °C
Environmental distribution:
hexamethylene-1,6-diisocyanate homopolymer
not applicable
Results of PBT and vPvB assessment
hexamethylene-1,6-diisocyanate homopolymer
This substance does not meet the criteria for classification as PBT or vPvB.
Additional information on ecotoxicology:
Isocyanate reacts with water at the interface forming CO2 and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents. Previous experience shows that polyurea is inert and non-degradable.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
Waste treatment methods
After final product withdrawal, all residues must be removed from containers (drip-free, powderfree or paste-free). Once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be invalidated. These containers can be returned for recycling to the appropriate centres set up within the framework of the existing takeback scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.
None disposal into waste water.

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14. TRANSPORT INFORMATION

ADR/RID Not dangerous goods
ADN Not dangerous goods
This classification data does not apply to transportation by tanker. If required, additional information can be requested from the manufacturer.
IATA Not dangerous goods
IMDG Not dangerous goods
Special precautions for user: Not dangerous cargo.
Slight smell. Keep dry.
Avoid heat above +50 °C.
Keep away from foodstuffs, acids and alkalis.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
TA Luft List (Germany):
Type: Organic Substances
portion Class 1: 0,3 %
Fraction of other substances: > 99 %
Water contaminating class (Germany): 1 slightly water endangering
(in accordance with Directive on Water-Hazardous Substances)
Any existing national regulations on the handling of isocyanates must be observed

Other regulations: The European Committee of Paint, Printing Ink and Artists' Colours Manufacturers' Associations (CEPE) provides the following information on coatings containingisocyanates: Ready-to-use paints containing isocyanates may have an irritant effect on mucousmembranes - especially on breathing organs - and cause hypersensitivity reactions. Inhalation of vapor or spray mist may cause sensitisation. When handling paints containing isocyanates all precautions required for solvent-containing paints must be followed. Vapor and spray mist in particular should not be inhaled. Allergics and asthmatics as well as people prone to respiratory ailments should not work with isocyanate containing paints.

A Chemical Safety Assessment has been carried out for:
hexamethylene-1,6-diisocyanate homopolymer.

16. OTHER INFORMATION

Full text of hazardous (H) warnings referred to under sections 2 and 3 of the CLP classification(1272/2008/CE).

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Full text of R-phrases referred to under sections 2 and 3 of the EU classification (67/548/EEC,1999/45/EC).

R20	Harmful by inhalation.
R23	Toxic by inhalation.
R36/37/38	Irritating to eyes,respiratory system and skin.
R37	Irritating to respiratory system.
R42/43	May cause sensitization by inhalation and skin contact.
R43	May cause sensitization by skin contact.

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The product is used mainly as a hardener in coating materials or adhesives.The handling of coating materials or adhesives containing reactive polyisocyanates and residual monomeric HDI requires appropriate protective measures referred to in this safety data sheet.These products mae therefore be used only in industrial or trade aplications.They are not suitable for use in homeworker DIY) applications.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Further information
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.