



1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

TIP TOP REMA GOO, PART A

Art.-No.:

525 3100

Use of the substance/preparation

Conveyor belt repair material

Company/undertaking identification

REMA TIP TOP GmbH

Gruber Straße 63

D-85586 Poing

Telephone : ++49 (0) 8121 / 707 - 0

Responsible Department :

Emergency telephone : ++49 (0) 6132 / 84463 (GBK Gefahrgut Buero GmbH, Ingelheim)

Responsible for the safety data sheet: sds@gbk-ingelheim.de

2. Hazards identification

Classification

Indications of danger : Toxic

R-phrases :

Toxic by inhalation.

Irritating to eyes, respiratory system and skin.

May cause sensitization by inhalation and skin contact.

GHS :

Hazard categories:

Acute toxicity: Acute Tox. 3

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory/skin sensitization: Resp. Sens. 1

Respiratory/skin sensitization: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Toxic if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Preparation with isocyanates

**Hazardous components**

EC-No.	CAS-No.	Chemical name GHS classification	Quantity	Classification
	67837-35-8	Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 4,4'-methylenedicyclohexyl diisocyanate Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H331-H334-H335-H319-H315-H317	30 - 60 %	T, Xi R23-36/37/38-42/43
225-863-2	5124-30-1	Dicyclohexylmethane-4,4'-di-isocyanate Acute Tox. 3 *, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Resp. Sens. 1, Skin Sens. 1; H331 H319 H335 H315 H334 H317	15 - 40 %	T, Xi R23-36/37/38-42/43
202-966-0	101-68-8	diphenylmethane-4,4'-diisocyanate Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H332-H334-H335-H319-H315-H317	5 - 10 %	Xn, Xi R20-36/37/38-42/43
246-467-6	24801-88-5	triethoxy(3-isocyanatopropyl)silane Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, STOT SE 3; H330-H302-H312-H334-H335-H319-H315	1 - 5 %	T+, Xn, Xi R21/22-26-36/37/38-42

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures**General information**

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

Take away from danger area and lay down affected person.

After inhalation

Move to fresh air in case of accidental inhalation of vapours.

If patient is not breathing, apply artificial respiration.

Refer for medical treatment.

After contact with skin

Wash contaminated skin with plenty of water and soap or with liquid polyethylene glycol.

Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting.

Rinse out mouth thoroughly with water.

Summon a doctor immediately.

Induce vomiting only upon the advice of a physician.

Advice to doctor

Keep under medical supervision for at least 48 hours.

5. Fire-fighting measures**Suitable extinguishing media**

Foam, carbon dioxide (CO₂), dry chemical, water-spray.

Extinguishing media which must not be used for safety reasons

Full water jet



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Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x).

Hydrogen cyanide (HCN)

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Cool containers at risk with water spray jet.

Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions

In case of vapour formation use respirator.

Ensure adequate ventilation.

Remove persons to safety.

Use personal protective clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

Additional information

Container should not be gas-tight closed.

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

7. Handling and storage

Handling

Advice on safe handling

Keep container tightly closed.

Vapours are heavier than air and spread along ground.

Avoid contact with the skin and the eyes.

Do not breathe vapours.

Local exhaust.

Use only in thoroughly ventilated areas.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Storage

Requirements for storage rooms and vessels

Keep containers tightly closed in a cool, well-ventilated place.

Store only in original container at temperature of 30°C maximum (=86°F).



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Advice on storage compatibility

Exothermic reaction with:

Acids and bases.

Water, amines, alcohols

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

8. Exposure controls/personal protection

Exposure limit values

Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not inhale vapours.

Avoid contact with eyes and skin.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

Hand protection

Splash protection:

Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril Velours 730> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection

Tightly fitting goggles

Eye wash bottle with pure water.

Skin protection

Long sleeved clothing.

Single-use overall

9. Physical and chemical properties

General information

Physical state : Liquid - viscous

Colour : Black

Odour : Soft

Important health, safety and environmental information

Changes in the physical state

Boiling point : > 200 °C

Pourpoint :

Flash point : > 130 °C Closed cup

Lower explosion limits : n.d.

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Vapour pressure :	< 0,000021 hPa
(at 25 °C)	
Vapour pressure :	20 hPa
(at 50 °C)	
Density (at 25 °C) :	1,0 - 1,2 g/cm ³ ASTM D 1296
Water solubility :	Reacts with water
(at 20 °C)	

10. Stability and reactivity

Conditions to avoid

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

Materials to avoid

Acids and bases

Water, amines, alcohols

Hazardous decomposition products

Hydrogen cyanide gas., Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x)

Additional information

No decomposition if stored and applied as directed.

11. Toxicological information

Empirical data on effects on humans

Toxic by inhalation.

Irritating to eyes, respiratory system and skin.

May cause sensitization by inhalation and skin contact.

With hypersensitive people, reactions as cough or difficulty of breathing may appear even with tiny concentrations of isocyanates; therefore keep room aerated and ventilated.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

12. Ecological information

Further information

In aqueous systems, formation of insoluble and chemically inert (inactive) polyureas.

Do not flush into surface water or sanitary sewer system.

Low hazard to waters

13. Disposal considerations

Advice on disposal

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances
Classified as hazardous waste.

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Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packagings are to be treated like the product itself.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

14. Transport information**Land transport (ADR/RID)**

UN number :	2206
ADR/RID class :	6.1
Classification code :	T1
Warning plate	
Hazard-no. :	60
Hazard label :	6.1
ADR/RID packing group :	III
Limited quantity :	LQ7

Description of the goods

ISOCYANATES, TOXIC, N.O.S. (Dicyclohexylmethane-4,4'-di-isocyanate, triethoxy(3-isocyanatopropyl)silane]

Other applicable information (land transport)

LQ 7: combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Transport category: 2

Tunnel restriction code: E

Marine transport

UN number :	2206
IMDG code :	6.1
Marine pollutant :	No
Hazard label :	6.1
IMDG packing group :	III
EmS :	F-A, S-A
Limited quantity :	5 L / 30 kg

Description of the goods

ISOCYANATES, TOXIC, N.O.S. (dicyclohexylmethane-4,4'-di-isocyanate, triethoxy(3-isocyanatopropyl)silane)

Other applicable information (marine transport)

Limited quantities (section 3.4): combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Air transport

UN/ID number :	2206
ICAO/IATA-DGR :	6.1
Hazard label :	6.1
ICAO packing group :	III
Limited quantity Passenger :	Y611 / 2 L
IATA-packing instructions - Passenger :	611
IATA-max. quantity - Passenger :	60 L
IATA-packing instructions - Cargo :	618
IATA-max. quantity - Cargo :	220 L



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Description of the goods

ISOCYANATES, TOXIC, N.O.S. (dicyclohexylmethane-4,4'-di-isocyanate, triethoxy(3-isocyanatopropyl)silane, mixture)

15. Regulatory information

Labelling

Additional advice on labelling

According to EC-regulations the product is to be labelled as follows:

Danger symbols : T - Toxic



T - Toxic

Hazardous component(s) to be indicated on label

Dicyclohexylmethane-4,4'-di-isocyanate
triethoxy(3-isocyanatopropyl)silane

R phrases

- 23 Toxic by inhalation.
36/37/38 Irritating to eyes, respiratory system and skin.
42/43 May cause sensitization by inhalation and skin contact.

S phrases

- 23 Do not breathe vapour .
35 This material and its container must be disposed of in a safe way.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
51 Use only in well-ventilated areas.
36/37 Wear suitable protective clothing and gloves.

Special labelling for certain preparations

Contains isocyanates. See information supplied by the manufacturer.

GHS labelling

Signal word : Danger

Pictograms : skull and crossbones; health hazard



Hazard statements

- H331 Toxic if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

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Precautionary statements

- P261 Avoid breathing vapours.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Special labelling for certain preparations

Contains isocyanates. May produce an allergic reaction.

EU regulatory information

1999/13/EC (VOC) : 0 %

National regulatory information

Employment restrictions : Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D) : 1 - slightly water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

- 20 Harmful by inhalation.
21/22 Harmful in contact with skin and if swallowed.
23 Toxic by inhalation.
26 Very toxic by inhalation.
36/37/38 Irritating to eyes, respiratory system and skin.
42 May cause sensitization by inhalation.
42/43 May cause sensitization by inhalation and skin contact.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)