



Safety Data Sheet

according to WHMIS

TIP TOP REMAFIX S H3

Date (latest revision): 09.07.2025

Product code: 00359-1085

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Wear protective gloves/protective clothing/eye protection/face protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.

Other hazards

With hypersensitive people, reactions as cough or difficulty of breathing may appear even with tiny concentrations of isocyanates; therefore keep room aerated and ventilated.
According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

3. Composition/information on ingredients

Mixtures

Chemical characterization

Preparation with isocyanates

Hazardous components

CAS No	Chemical name	Quantity
9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues	~ 80 %
101-68-8	4,4'-Methylene-diphenyl diisocyanate	~ 10 %
5873-54-1	Diphenylmethane-2,4'-diisocyanate	~ 10 %

4. First-aid measures

Description of 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.
Never give anything by mouth to an unconscious person.
Summon a doctor immediately.
Induce vomiting only upon the advice of a physician.

Most important symptoms and effects, whether acute or delayed

Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.



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Suspected of causing cancer.

Indication of immediate medical attention and special treatment needed

Keep under medical supervision for at least 48 hours.
Treat symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Full water jet.

Specific hazards arising from the hazardous product

Fire may produce:

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

Special protective equipment and precautions 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, protective equipment and emergency procedures

General advice

Ensure adequate ventilation.
Remove persons to safety.

For non-emergency personnel

Do not breathe vapours.
Avoid contact with skin, eyes and clothing.

For emergency responders

In case of vapour formation use respirator.
Use personal protective clothing.

Environmental precautions

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

Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
Shovel into suitable container for disposal.
Container should not be gas-tight closed.
Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

Reference to other sections

Observe protective instructions (see Sections 7 and 8).
Information for disposal look up chapter 13.

7. Handling and storage

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Precautions for safe 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.

Advice on general occupational hygiene

- 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.

Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

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

Hints on joint storage

- 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**Control parameters****Exposure limits (ACGIH)**

CAS No	Chemical name	ppm	mg/m ³	F/ml	Category	Origin
-	Hexane (commercial, <54% n-Hexane)	100			TWA (8 h)	ACGIH-2024

Exposure controls**Appropriate engineering controls**

- Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment**Eye/face protection**

- Tightly fitting goggles.
- Eye wash bottle with pure water.

Hand protection

- Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.
- 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.
- Pls. find examples in the GISBAU protective gloves database under:
<http://www.wingisonline.de/handschuhe/frmMain.aspx>

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Skin protection

Long sleeved clothing.
Single-use overall

Respiratory protection

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

9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state: Liquid
Colour: Brown
Odour: Musty

Test method**Changes in the physical state**

Melting point/freezing point: n. d.
Boiling point or initial boiling point and boiling range: > 300 °C DIN 53171
Sublimation point: n.a.
Pour point: approx. - 30 °C ISO 3016
Flash point: approx. 229 °C DIN EN 22719 / ISO 2719

Flammability

Solid/liquid: n.a.

Explosive properties

The product is not explosive.

Lower explosive limits: n. d.
Upper explosive limits: n. d.
Auto-ignition temperature: > 500 °C DIN 51794

Self-ignition temperature

Solid: n.a.
Gas: n.a.

Decomposition temperature: ~ 200 °C

pH-Value: n.a.

Viscosity / dynamic: approx. 145 mPa·s DIN 53019
(at 20 °C)

Viscosity / kinematic: n. d.

Flow time: n. d.

Water solubility: Reacts with water
(at 15 °C)

Solubility in other solvents

n. d.

Partition coefficient n-octanol/water: n. d.

Vapour pressure: approx. 11 hPa EC A 4
(at 20 °C)

Vapour pressure: approx. 20 hPa EC A 4
(at 50 °C)

Density (at 25 °C): approx. 1,23 g/cm³ DIN 51757

Bulk density: n.a.

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Relative vapour density:

n. d.

Other information**Information with regard to physical hazard classes**

Oxidizing properties

Not oxidising.

Other safety characteristics

Solvent separation test:

0 %

Solvent content:

0 %

Evaporation rate:

n. d.

Further Information

No data available

10. Stability and reactivity**Reactivity**

No decomposition if stored and applied as directed.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Reactions with strong acids and alkalies.

Reacts with: Water, amines, alcohols

Conditions to avoid

To avoid thermal decomposition, do not overheat. [Combustion temperature ~ 200°C]

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

Incompatible materials

Acids and bases

Water, amines, alcohols

Hazardous decomposition products

No hazardous decomposition products known.

Fire may produce:

Hydrogen cyanide gas., Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x)**11. Toxicological information****Information on toxicological effects****Acute toxicity**

Harmful if inhaled.

No toxicological data available.

Diphenylmethanediisocyanate, isomeres and homologues; 4,4'-Methylene-diphenyl diisocyanate;

Diphenylmethane-2,4'-diisocyanate; Diphenylmethane-2,2'-diisocyanate

LD50/oral/rat: > 2000 mg/kg [OECD 401]

=> ATEmix/oral: > 2000 mg/kg

Diphenylmethanediisocyanate, isomeres and homologues; 4,4'-Methylene-diphenyl diisocyanate;

Diphenylmethane-2,4'-diisocyanate; Diphenylmethane-2,2'-diisocyanate

LD50/dermal/rabbit: > 9400 mg/kg [OECD 402]

=> ATEmix/dermal: > 2000 mg/kg

ATEmix/inhalation: 1,5 mg/l, 4h [dust/mist]

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ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 8,800 mg/l; ATE (inhalation dust/mist) 1,200 mg/l

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitizing effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Diphenylmethanediisocyanate, isomeres and homologues; 4,4'-Methylene-diphenyl diisocyanate; Diphenylmethane-2,4'-diisocyanate)

May cause an allergic skin reaction. (Diphenylmethanediisocyanate, isomeres and homologues; 4,4'-Methylene-diphenyl diisocyanate; Diphenylmethane-2,4'-diisocyanate)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (Diphenylmethanediisocyanate, isomeres and homologues; 4,4'-Methylene-diphenyl diisocyanate; Diphenylmethane-2,4'-diisocyanate)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (Diphenylmethanediisocyanate, isomeres and homologues)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Diphenylmethanediisocyanate, isomeres and homologues; 4,4'-Methylene-diphenyl diisocyanate; Diphenylmethane-2,4'-diisocyanate)

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

Information on other hazards**Endocrine disrupting properties**

No data available

Other information

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

12. Ecological information**Ecotoxicity**

Ecological dates are not available.

Diphenylmethanediisocyanate, isomeres and homologues; 4,4'-Methylene-diphenyl diisocyanate;

Diphenylmethane-2,4'-diisocyanate; Diphenylmethane-2,2'-diisocyanate

LC50/Danio rerio/96h > 1000 mg/l [OECD 203]

EC50/Daphnia magna/48h > 1000 mg/l [OECD 202]

NOECDaphnia magna/21d > 10 mg/l [OECD 211]

EC50/Scenedesmus subspicatus/72h > 1640 mg/l [OECD 201]

EC50/Activated sludge/3h > 100 mg/l [OECD 209]

Persistence and degradability

Biodegradable (OECD): 0% [28 d; OECD 302 C]

Not readily biodegradable.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Endocrine disrupting properties

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This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

Slightly water hazardous.

Further information

In aqueous systems, formation of insoluble and chemically inert (inactive) polyureas.
Do not flush into surface water or sanitary sewer system.

13. Disposal considerations**Waste treatment methods****Disposal recommendations**

Where possible recycling is preferred to disposal.
Can be incinerated, when in compliance with local regulations.

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**Canadian TDG**

Proper shipping name: No dangerous good in sense of this transport regulation.

Hazard classes:**Marine transport (IMDG)**

UN number or ID number: No dangerous good in sense of this transport regulation.

United Nations proper shipping name: No dangerous good in sense of this transport regulation.

name:

Transport hazard class(es): No dangerous good in sense of this transport regulation.

Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: No dangerous good in sense of this transport regulation.

United Nations proper shipping name: No dangerous good in sense of this transport regulation.

name:

Transport hazard class(es): No dangerous good in sense of this transport regulation.

Packing group: No dangerous good in sense of this transport regulation.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

15. Regulatory information**Canadian regulations****National Pollutant Release Inventory (NPRI)**

4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8)

Diphenylmethane-2,4'-diisocyanate (5873-54-1)

16. Other information**Changes**

This data sheet contains changes from the previous version in section(s): 2,4,6,8,9,10,11,12,15.

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Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
DIN = Deutsche Industrie Norm
PBT = Persistent Bioaccumulative and Toxic
vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Further Information

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)