



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## TIP TOP REMACOAT A-80 ISO

Revision date: 01.07.2022

Product code: 00359-1090

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

TIP TOP REMACOAT A-80 ISO

##### Art.-No.

590 2914, 590 2938

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Use of the substance/mixture

Coating system for protection against wear and corrosion

#### 1.3. Details of the supplier of the safety data sheet

Company name: TIP TOP Oberflächenschutz Elbe GmbH

Street: Heuweg 4

Place: D-06886 Wittenberg

Telephone: +49(0)3491/635-50

Telefax: +49(0)3491/635-552

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

#### 1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
Public Poisons Information Line: +353 (0) 1 809 2166 (8am-10pm 7 days a week)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Regulation (EC) No 1272/2008

Acute Tox. 4; H332  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Resp. Sens. 1; H334  
Skin Sens. 1; H317  
Carc. 2; H351  
STOT SE 3; H335  
STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### Regulation (EC) No 1272/2008

##### Hazard components for labelling

4,4'-Methylene-diphenyl diisocyanate

Polypropylene glycol, diphenylmethane diisocyanate polymer

Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with

1,1'-ethylenebis(isocyanatobenzene), methyloxirane and oxirane

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl) phenyl isocyanate

4,4'-Methylenediphenyl diisocyanate, oligomers

**Signal word:** Danger**Pictograms:**

##### Hazard statements

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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H335	May cause respiratory irritation.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H373	May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.

#### Precautionary statements

P260	Do not breathe vapour.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.

#### Special labelling of certain mixtures

EUH204	Contains isocyanates. May produce an allergic reaction. As from 24 August 2023 adequate training is required before industrial or professional use.
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#### 2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Preparation with isocyanates

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**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
39420-98-9	Polypropylene glycol, diphenylmethane diisocyanate polymer			< 40 %
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			
157937-75-2	Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1'-ethylenebis(isocyanatobenzene), methyloxirane and oxirane			< 40 %
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			
101-68-8	4,4'-Methylene-diphenyl diisocyanate			< 30 %
	202-966-0	615-005-00-9	01-2119457014-47	
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			
108-32-7	Propylene carbonate			< 10 %
	203-572-1	607-194-00-1	01-2119537232-48	
	Eye Irrit. 2; H319			
25686-28-6	4,4'-Methylenediphenyl diisocyanate, oligomers			< 5 %
	500-040-3		01-2119457013-49	
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			
	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl) phenyl isocyanate			< 5 %
			01-2119457015-45	
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
39420-98-9		Polypropylene glycol, diphenylmethane diisocyanate polymer	< 40 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists)		
157937-75-2		Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1'-ethylenebis(isocyanatobenzene), methyloxirane and oxirane	< 40 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists)		
101-68-8	202-966-0	4,4'-Methylene-diphenyl diisocyanate	< 30 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = 0,368 mg/l (dusts or mists); dermal: LD50 = > 9400 mg/kg; oral: LD50 = > 2000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100 Resp. Sens. 1; H334: >= 0,1 - 100 STOT SE 3; H335: >= 5 - 100		
108-32-7	203-572-1	Propylene carbonate	< 10 %
	dermal: LD50 = > 23800 mg/kg; oral: LD50 = 34600 mg/kg		
25686-28-6	500-040-3	4,4'-Methylenediphenyl diisocyanate, oligomers	< 5 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists)		
		Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl) phenyl isocyanate	< 5 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists)		



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#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

###### General information

Remove contaminated soaked clothing immediately.  
In the event of persistent symptoms receive medical treatment.

###### After inhalation

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.  
Refer for medical treatment.

###### After contact with skin

Remove immediately adhering matter.  
Consult a physician.  
Wash contaminated skin with plenty of water and soap or with liquid polyethylene glycol.

###### 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.

##### 4.2. Most important symptoms and effects, both acute and delayed

Harmful if inhaled.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause respiratory irritation.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure if inhaled. (Respiratory system)

##### 4.3. Indication of any immediate medical attention and special treatment needed

Keep under medical supervision for at least 48 hours.

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### Suitable extinguishing media

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.

###### Unsuitable extinguishing media

Full water jet.

##### 5.2. Special hazards arising from the substance or mixture

Fire may produce:  
Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).  
Hydrogen cyanide (HCN)  
Isocyanates (NCO).

##### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

###### Additional information

Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.  
Cool containers at risk with water spray jet.



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

#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

###### General advice

- Ensure adequate ventilation.
- Keep away noninvolved persons.

###### 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.

##### 6.2. Environmental precautions

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

##### 6.3. 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.
- No not container for disposal.
- Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

##### 6.4. Reference to other sections

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

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

###### Advice on safe handling

- Keep container tightly closed.
- Avoid contact with the skin and the eyes.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Do not breathe vapours.
- When working with spray, exhaustion of air becomes indispensable.
- Use only in thoroughly ventilated areas.

###### Advice on protection against fire and explosion

- No special protective measures against fire required.

##### 7.2. Conditions for safe storage, including any incompatibilities

###### Requirements for storage rooms and vessels

- Keep container tightly closed in a dry, cool and 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.



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### 7.3. Specific end use(s)

Coating system for protection against wear and corrosion

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
101-68-8	4,4'-Methylene-diphenyl diisocyanate (as -NCO)	0.005	-		TWA (8 h)	

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
101-68-8	4,4'-Methylene-diphenyl diisocyanate			
Worker DNEL, acute		dermal	systemic	50 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	0,1 mg/m <sup>3</sup>
Worker DNEL, acute		dermal	local	28,7 mg/cm <sup>2</sup>
Worker DNEL, acute		inhalation	local	0,1 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	0,05 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	0,05 mg/m <sup>3</sup>
Consumer DNEL, acute		dermal	systemic	25 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	0,05 mg/m <sup>3</sup>
Consumer DNEL, acute		oral	systemic	20 mg/kg bw/day
Consumer DNEL, acute		dermal	local	17,2 mg/cm <sup>2</sup>
Consumer DNEL, acute		inhalation	local	0,05 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	0,025 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	0,025 mg/m <sup>3</sup>

#### PNEC values

CAS No	Substance	Value
101-68-8	4,4'-Methylene-diphenyl diisocyanate	
Environmental compartment		
Freshwater		1 mg/l
Marine water		0,1 mg/l
Soil		1 mg/kg
Micro-organisms in sewage treatment plants (STP)		1 mg/l
Freshwater (intermittent releases)		10 mg/l

### 8.2. Exposure controls

#### Appropriate engineering 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.

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Take off immediately all contaminated clothing.

**Eye/face protection**

Tightly fitting goggles (EN 166).  
Eye wash bottle with pure water (EN 15154).

**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 protective gloves database under: <http://bestglove.com/site/chemrest/>

**Skin protection**

Long sleeved clothing (DIN EN ISO 6530)

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	Liquid	
Colour:	Yellowish	
Odour:	Erthy	
pH-Value:		n. d.

**Changes in the physical state**

Melting point/freezing point:		n. d.
Boiling point or initial boiling point and boiling range:		n.a. (decomposition)
Sublimation point:		n.a.
Softening point:		n. d.
Flash point:		> 100 °C

**Flammability**

Solid/liquid:		n.a.
Gas:		n.a.

**Explosive properties**

The product is not explosive.

Lower explosion limits:		n. d.
Upper explosion limits:		n. d.
Auto-ignition temperature:		n. d.

**Self-ignition temperature**

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

Decomposition temperature:		n. d.
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**Oxidizing properties**

Not oxidising.

Vapour pressure: (at 25 °C)		n. d.
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Density (at 25 °C):		1,10 - 1,14 g/cm <sup>3</sup>
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Bulk density:	n.a.
Water solubility:	Reacts with water
<b>Solubility in other solvents</b>	
n. d.	
Partition coefficient n-octanol/water:	n. d.
Viscosity / dynamic: (at 25 °C)	700 - 1000 mPa·s
Viscosity / kinematic:	n. d.
Flow time:	n. d.
Relative vapour density:	n. d.
Evaporation rate:	n. d.
Solvent separation test:	n. d.
Solvent content:	< 10 %

**9.2. Other information**

No data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**Reactions with strong acids and alkalies.  
Reacts with: Water, amines, alcohols**10.4. Conditions to avoid**Vapours may form explosive mixture with air.  
Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.**10.5. Incompatible materials**Acids and bases  
Water, amines, alcohols**10.6. Hazardous decomposition products**No hazardous decomposition products known.  
Fire may produce:  
Hydrogen cyanide gas.  
Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)  
Isocyanates**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**Harmful if inhaled.  
No toxicological data available.**Irritation and corrosivity**Causes skin irritation.  
Causes serious eye irritation.**Sensitising effects**



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Contains isocyanates. May produce an allergic reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Polypropylene glycol, diphenylmethane diisocyanate polymer; Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1'-ethylenebis(isocyanatobenzene), methyloxirane and oxirane; 4,4'-Methylene-diphenyl diisocyanate; 4,4'-Methylenediphenyl diisocyanate, oligomers; Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl) phenyl isocyanate)

May cause an allergic skin reaction. (Polypropylene glycol, diphenylmethane diisocyanate polymer; Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1'-ethylenebis(isocyanatobenzene), methyloxirane and oxirane; 4,4'-Methylene-diphenyl diisocyanate; 4,4'-Methylenediphenyl diisocyanate, oligomers; Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl) phenyl isocyanate)

May cause an allergic skin reaction.

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

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing cancer. (Polypropylene glycol, diphenylmethane diisocyanate polymer; Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1'-ethylenebis(isocyanatobenzene), methyloxirane and oxirane; 4,4'-Methylene-diphenyl diisocyanate; 4,4'-Methylenediphenyl diisocyanate, oligomers; Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl) phenyl isocyanate)

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. (Polypropylene glycol, diphenylmethane diisocyanate polymer; Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1'-ethylenebis(isocyanatobenzene), methyloxirane and oxirane; 4,4'-Methylene-diphenyl diisocyanate)

#### **STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (Polypropylene glycol, diphenylmethane diisocyanate polymer; Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1'-ethylenebis(isocyanatobenzene), methyloxirane and oxirane; 4,4'-Methylene-diphenyl 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.

### **11.2. 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.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Ecological data are not available.

### **12.2. Persistence and degradability**

No data available

### **12.3. Bioaccumulative potential**

No data available

### **12.4. Mobility in soil**

No data available

### **12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.



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#### **12.6. Endocrine disrupting properties**

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

#### **12.7. 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.

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Disposal recommendations**

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

##### **List of Wastes Code - 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 hazardous substances; hazardous waste

##### **Contaminated packaging**

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.  
Packaging that cannot be cleaned should be disposed of like the product.

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

#### **Inland waterways transport (ADN)**

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

#### **Marine transport (IMDG)**

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

#### **Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.



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#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

#### **14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

#### **14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

### SECTION 15: Regulatory information

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 56

2004/42/EC (VOC): 0 %

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

##### **National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

1 - slightly hazardous to water

#### **15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### **Changes**

This data sheet contains changes from the previous version in section(s): 2,6,7,8,9,10,11,12,13,14,15.

#### **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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP REMACOAT A-80 ISO**

Revision date: 01.07.2022

Product code: 00359-1090

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

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Acute Tox. 4; H332	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Resp. Sens. 1; H334	Calculation method
Skin Sens. 1; H317	Calculation method
Carc. 2; H351	Calculation method
STOT SE 3; H335	Calculation method
STOT RE 2; H373	Calculation method

**Relevant H and EUH statements (number and full text)**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.  
H373 May cause damage to organs through prolonged or repeated exposure.  
EUH204 Contains isocyanates. May produce an allergic reaction.

**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.'*