



# Safety Data Sheet

according to UK REACH Regulation

## TIP TOP COROFLAKE 28 / TIP TOP COROFLAKE 28 ST

Revision date: 27.08.2021

Product code: 00359-1127

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

#### 1.1. Product identifier

TIP TOP COROFLAKE 28 / TIP TOP COROFLAKE 28 ST

##### Art.-No.

Tip Top Coroflake 28: 590 0071, 590 0552

Tip Top Coroflake 28 ST: 590 0490, 590 0760

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

##### Use of the substance/mixture

Spray coating material

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

##### Manufacturer

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

##### Supplier

Company name: REMA TIP TOP INDUSTRY UK LTD

Street: Plumtree Industrial Estate, Harworth

Place: Doncaster, DN11 8EW, South Yorkshire

Telephone: +44 (0)1302 711233

Internet: www.rema-tiptop.co.uk

#### 1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

### SECTION 2: Hazards identification

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

##### GB CLP Regulation

Hazard categories:

Flammable liquid: Flam. Liq. 3

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Reproductive toxicity: Repr. 2

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Flammable liquid and vapour.

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging the unborn child.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

##### GB CLP Regulation

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### Hazard components for labelling

Styrene  
Methacrylic acid  
methanol

**Signal word:** Danger

**Pictograms:**



### Hazard statements

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H361d Suspected of damaging the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe vapour.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
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.  
P405 Store locked up.

### Special labelling of certain mixtures

EUH208 Contains Neodecanoic acid, cobalt salt, 1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-, N-[(ethenylphenyl)methyl], Derivates, Hydrochlorides. May produce an allergic reaction.  
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### 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  
Vapours may form explosive mixture with air.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Epoxide-vinyl ester-resin in styrene

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**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
100-42-5	Styrene			< 35 %
	202-851-5	601-026-00-0	01-2119457861-32	
	Flam. Liq. 3, Repr. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 3; H226 H361d H332 H315 H319 H335 H372 H304 H412			
79-41-4	Methacrylic acid			< 2,5 %
	201-204-4	607-088-00-5	01-2119463884-26	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, STOT SE 3; H332 H312 H302 H314 H335			
13463-67-7	Titanium dioxide			< 5 %
	236-675-5	022-006-00-2	01-2119489379-17	
	Carc. 2; H351			
67-56-1	methanol			< 0,3 %
	200-659-6	603-001-00-X	01-2119433307-44	
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370			
27253-31-2	Neodecanoic acid, cobalt salt			< 1 %
	248-373-0		01-2119970733-31	
	Acute Tox. 4, Skin Sens. 1, STOT RE 1, Aquatic Chronic 3; H302 H317 H372 H412			
75-57-0	Tetramethylammonium chloride			< 1 %
	200-880-8		01-2119970924-26	
	Acute Tox. 2, Acute Tox. 3, Skin Irrit. 2, STOT SE 1, Aquatic Chronic 2; H300 H311 H315 H370 H411			
171869-89-9	1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-, N-[(ethenylphenyl)methyl], Derivates, Hydrochlorides			< 1 %
	Eye Dam. 1, Skin Sens. 1; H318 H317			

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	
100-42-5	202-851-5	Styrene	< 35 %
		inhalation: LC50 = 12 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 2650 mg/kg	
79-41-4	201-204-4	Methacrylic acid	< 2,5 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg STOT SE 3; H335: >= 1 - 100	
67-56-1	200-659-6	methanol	< 0,3 %
		inhalation: LC50 = 83,9 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = 15800 mg/kg; oral: LD50 = 5630 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - < 10	
27253-31-2	248-373-0	Neodecanoic acid, cobalt salt	< 1 %
		oral: ATE = 500 mg/kg	
75-57-0	200-880-8	Tetramethylammonium chloride	< 1 %
		dermal: LD50 = 200 - 500 mg/kg; oral: LD50 = 50 mg/kg	



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### Further Information

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ .

## 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.  
Take away from danger area and lay down affected person.

#### After inhalation

Move to fresh air in case of accidental inhalation of vapours.  
Seek medical treatment immediately.

#### After contact with skin

Wash off immediately with soap and plenty of water.  
Treat subsequently with skin cream.  
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.  
Consult (eye) doctor immediately.

#### After ingestion

Do not induce vomiting.  
Summon a doctor immediately.  
Rinse out mouth and give plenty of water to drink.  
Never give anything by mouth to an unconscious person.  
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.  
Causes serious eye irritation.  
May cause respiratory irritation.  
Causes damage to organs through prolonged or repeated exposure. (the ear)  
Suspected of damaging the unborn child.  
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

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

Treat symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

Full water jet

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

Fire may produce:  
carbon monoxide and carbon dioxide  
Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.



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### Additional information

- Vapours are heavier than air and spread along ground.
- The vapour/air mixture is explosive, even in empty, uncleaned receptacles.
- Cool containers at risk with water spray jet.
- Collect contaminated firefighting water separately, must not be discharged into the drains.
- 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 measures

- Ensure adequate ventilation.
- Remove persons to safety.
- Keep away sources of ignition.

#### For non-emergency personnel

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

#### 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/ground water.
- 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.

### 6.4. Reference to other sections

- Observe protective instructions (see Sections 7 and 8).
- Information for disposal see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

- Keep container tightly closed.
- Vapours are heavier than air and spread along ground.
- Use only in thoroughly ventilated areas.
- Provide suitable extraction at the processing machines.

#### Advice on protection against fire and explosion

- Keep away from heat and sources of ignition.
- Do not smoke.
- Take precautionary measures against static discharges.
- Use only explosion-proof equipment.

### 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.
- Pay attention to anti-explosion rules.
- Avoid temperatures above 50°C.

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**Hints on joint storage**

Incompatible with:

Oxidizing agents, Metal halogenides, Peroxides

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**7.3. Specific end use(s)**

Spray coating material

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
79-41-4	Methacrylic acid	20	72		TWA (8 h)	WEL
		40	143		STEL (15 min)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL
100-42-5	Styrene	100	430		TWA (8 h)	WEL
		250	1080		STEL (15 min)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL

**8.2. Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

Pay attention to explosion protection guidelines.

**Protective and hygiene measures**

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Treat subsequently with skin cream.

Remove and wash contaminated clothes before re-use.

**Eye/face protection**

Eye wash bottle with pure water (EN 15154).

Tightly fitting goggles (EN 166).

**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)

Solvent-resistant apron (EN 467).

**Respiratory protection**

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



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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state: Liquid  
Colour: Yellowish  
Odour: Pungent

#### Test method

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.d.

Sublimation point: n.a.

Softening point: n.d.

Flash point: 35 °C

#### Flammability

Solid/liquid: n.a.

Gas: n.a.

#### Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

Lower explosion limits: 1,1 vol. %

Upper explosion limits: n.d.

Auto-ignition temperature: 490 °C

#### Self-ignition temperature

Solid: n.a.

Gas: n.a.

Decomposition temperature: n.d.

#### Oxidizing properties

Not oxidising.

Vapour pressure: 6 hPa  
(at 20 °C)

Density: 1,20 ± 0,04 g/cm<sup>3</sup> ISO 2811

Bulk density: n.a.

Water solubility: Immiscible  
(at 20 °C)

#### Solubility in other solvents

n.d.

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

Viscosity / dynamic: 2550 ± 250 mPa·s ISO 2555

Viscosity / kinematic: > 20,5 mm<sup>2</sup>/s  
(at 40 °C)

Flow time: > 40 s Ford beaker, no. 6

Relative vapour density: n.d.

Evaporation rate: n.d.

Solvent separation test: < 3 %



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Solvent content:

&lt; 5 %

### 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 oxidizing agents.  
Reactions with peroxides.

### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.  
Vapour/air mixtures are explosive at intensive warming.  
Heating can release vapours which can be ignited.  
Avoid temperatures above 50°C.  
If heating up polymerisation.

### 10.5. Incompatible materials

Oxidizing agents, Metal halogenides, Peroxides

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.  
Fire may produce:  
Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).  
Carbon monoxide and carbon dioxide

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### **Acute toxicity**

Harmful if inhaled.  
No toxicological data available.  
Styrene  
LD50/oral/rat: 5000 mg/kg  
LD50/dermal/rat: > 2000 mg/kg  
LC50/inhalation/rat: 11,8 mg/l/4h

#### **ATEmix calculated**

ATE (inhalation aerosol) 4,340 mg/l

#### **Irritation and corrosivity**

Causes skin irritation.  
Causes serious eye irritation.

#### **Sensitising effects**

Contains Neodecanoic acid, cobalt salt, 1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-, N-[(ethenylphenyl)methyl], Derivates, Hydrochlorides. May produce an allergic reaction.

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

Suspected of damaging the unborn child. (Styrene)  
Germ cell mutagenicity: Based on available data, the classification criteria are not met.  
Carcinogenicity: Based on available data, the classification criteria are not met.

#### **STOT-single exposure**

May cause respiratory irritation. (Styrene; Methacrylic acid)



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**STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure. (Styrene)

**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**

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

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

**SECTION 12: Ecological information****12.1. Toxicity**

Ecological data are not available.

Harmful to aquatic life with long lasting effects.

Styrene

LC50/Pimephales promelas/96 h = 4,02 mg/kg

EC50/Daphnia magna/48 h = 4,7 mg/kg

EC50/Pseudokirchneriella subcapitata/72 h &gt; 4,9 mg/kg

**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**

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

**12.6. Endocrine disrupting properties**

No data available

**12.7. Other adverse effects**

Hazardous water pollutant.

Product is toxic to fish and their nutrient animals.

**Further information**

Do not flush into surface water or sanitary sewer system.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

**List of Wastes Code - residues/unused products**

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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 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)

**14.1. UN number:** UN 1866  
**14.2. UN proper shipping name:** Resin solution  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Classification code: F1  
Special Provisions: 640E  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 30  
Tunnel restriction code: D/E

### Other applicable information (land transport)

Viscous substance - excepted quantity if in containers with a capacity up to 450 l (subsection 2.2.3.1.5 ADR)

### Inland waterways transport (ADN)

**14.1. UN number:** UN 1866  
**14.2. UN proper shipping name:** Resin solution  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Classification code: F1  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E1

### Other applicable information (inland waterways transport)

Viscous substance - excepted quantity if in containers with a capacity up to 450 l (subsection 2.2.3.1.5 ADN)

### Marine transport (IMDG)

**14.1. UN number:** UN 1866  
**14.2. UN proper shipping name:** Resin solution  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III

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Hazard label: 3



Marine pollutant: No  
Special Provisions: 223, 955  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E1  
EmS: F-E, S-E

### Other applicable information (marine transport)

Viscous substance - excepted quantity if in containers with a capacity up to 30 l (subsection 2.3.2.5 IMDG Code).

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

**14.1. UN number:** UN 1866  
**14.2. UN proper shipping name:** Resin solution  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Special Provisions: A3  
Limited quantity Passenger: 10 L  
Passenger LQ: Y344  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 355  
IATA-max. quantity - Passenger: 60 L  
IATA-packing instructions - Cargo: 366  
IATA-max. quantity - Cargo: 220 L

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

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

The transport takes place only in approved and appropriate packaging.

## 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 69

2004/42/EC (VOC): &lt; 5 %; &lt; 90 g/l

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

#### National regulatory information



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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): 2 - obviously hazardous to water

### Additional information

Consider Chemical prohibition regulation.

### 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): 1,2,3,6,7,8,10,11,12,14.

### 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

### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Acute Tox. 4; H332	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Repr. 2; H361d	Calculation method
STOT SE 3; H335	Calculation method
STOT RE 1; H372	Calculation method
Aquatic Chronic 3; H412	Calculation method

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

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H300 Fatal if swallowed.

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H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Neodecanoic acid, cobalt salt, 1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-, N-[(ethenylphenyl)methyl], Derivates, Hydrochlorides. May produce an allergic reaction.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**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.'*