TIP TOP Oberflaechenschutz Elbe GmbH

Revision date: 18.01.2013 Revision No: 1,01

**TIP TOP COROFLAKE 29** 

00359-1030



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

### 1.1. Product identifier

**TIP TOP COROFLAKE 29** 

Art.-No.

590 0460, 590 0470

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

### Use of the substance/mixture

Coating material

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

TIP TOP Oberflaechenschutz Elbe GmbH

Heuweg 4

D-06886 Wittenberg

Telephone: +49(0)3491/635-50Telefax: +49(0)3491/635-552Responsible for the safety data sheet: sds@gbk-ingelheim.de

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

number: Ingelheim)

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Indications of danger: Harmful, Irritant

R phrases: Flammable.

Harmful by inhalation. Irritating to eyes and skin.

## **GHS** classification

Hazard categories:

Flammable liquid: Flam. Liq. 3 Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Specific target organ toxicity - single exposure: STOT SE 3
Specific target organ toxicity - repeated exposure: STOT RE 1

Hazard Statements:

Flammable liquid and vapour.

Harmful if inhaled.

May cause respiratory irritation. Causes serious eye damage.

Causes skin irritation.

Causes damage to organs through prolonged or repeated exposure.

# 2.2. Label elements

### Pictograms:

GHS02-GHS05-GHS07-GHS08









Signal word:

Danger

Hazardous components which must be listed on the label

Styrene

Methacrylic acid

# **Hazard statements**

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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H318 Causes serious eye damage.

H315 Causes skin irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements** 

P210 Keep away from heat/sparks/open flames/hot surfaces. - 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): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

2.3. Other hazards
No data available.

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

#### **Chemical characterization**

Epoxide-vinyl ester-resin in styrene

## **Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
202-851-5	Styrene	25 - < 40 %
100-42-5	Xn - Harmful, Xi - Irritant R10-20-36/38	
601-026-00-0	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 1, Asp. Tox. 1; H226 H332 H315 H319 H335 H372 H304	
01-2119457861-32		
201-204-4	Methacrylic acid	2,5 - < 5 %
79-41-4	C - Corrosive, Xn - Harmful R21/22-35	
607-088-00-5	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A; H312 H302 H314	
204-617-8	1,4-Dihydroxybenzene	< 0,1 %
123-31-9	Carc. Cat. 3, Muta. Cat. 3, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R40-68-22-41-43-50	
604-005-00-4	Carc. 2, Muta. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H351 H341 H302 H318 H317 H400	

Full text of R and H phrases: see Section 16.

### **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.

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### 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 by inhalation.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

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

Attention. Beware, danger of aspiration.

### 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 (CO2), water-spray.

### Extinguishing media which must not be used for safety reasons

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.

#### 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.

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

In case of vapour formation use respirator.

Ensure adequate ventilation.

Remove persons to safety.

Use personal protective clothing.

Keep away sources of ignition.

#### 6.2. Environmental precautions

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

## 6.3. Methods and material for containment and 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 look up chapter 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.





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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.

#### Advice on storage compatibility

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)

Coating material

\_\_\_\_\_

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### **Exposure limits (EH40)**

	CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
ſ	123-31-9	Hydroquinone	-	0.5		TWA (8 h)	WEL
I			-	-		STEL (15 min)	WEL
I	79-41-4	Methacrylic acid	20	72		TWA (8 h)	WEL
I			40	143		STEL (15 min)	WEL
İ	100-42-5	Styrene	100	430		TWA (8 h)	WEL
I			250	1080		STEL (15 min)	WEL

### 8.2. Exposure controls

### Occupational exposure 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.

# Respiratory protection

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

# **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/

### Eye protection

Tightly fitting goggles.

Eye wash bottle with pure water.

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Skin protection

Long sleeved clothing. Solvent-resistant apron.

### **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Yellowish
Odour: Pungent

Test method

Changes in the physical state

Boiling point: 145 °C
Flash point: 26 °C
Lower explosion limits: 1,0 vol. %
Upper explosion limits: 6,0 vol. %
Ignition temperature: 490 °C
Vapour pressure: 6 hPa

(at 20 °C)

Density (at 20 °C): 1,275 g/cm³ Water solubility: Immiscible

(at 20 °C)

Viscosity / dynamic: 2750 - 3250 mPa·s Viscosity / kinematic: > 20,5 mm²/s

(at 40 °C)

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

## **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

Metal halogenides, oxidizing agents, Peroxides

# 10.6. Hazardous decomposition products

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

Carbon monoxide and carbon dioxide.

## **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

### **Acute toxicity**

No toxicological data available.

Harmful by inhalation.

Styrene

LD50/oral/rat: 5000 mg/kg LD50/dermal/rat: > 2000 mg/kg

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LC50/inhalation/rat: 11,8 mg/l/4h

Irritation and corrosivity

Skin irritation: Irritant
Eye irritation: Irritant
Sensitising effects

Not classified.

#### Severe effects after repeated or prolonged exposure

STOT - Single exposure: Category 3 [May cause respiratory irritation.]

STOT - Repeated exposure: Category 1 [Causes damage to organs through prolonged or repeated exposure. (the ear)]

Aspiration hazard: Not classified.

### Carcinogenic/mutagenic/toxic effects for reproduction

Carcinogenicity: Not classified. Mutagenicity: Not classified. Teratogenicity: Not classified. Additional information on tests

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

## Empirical data on effects on humans

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.

Stvrene

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

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

EC50/Pseudokirchneriela subcapitata/72 h > 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. 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

### Advice on disposal

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

### 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.

### 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.





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## **SECTION 14: Transport information**

Land transport (ADR/RID)

14.1. UN number:UN186614.2. UN proper shipping name:Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1

Limited quantity: 5 L / 30 kg

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 I (subsection 2.2.3.1.5 ADR).

### Inland waterways transport (ADN)

14.1. UN number:UN186614.2. UN proper shipping name:Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1

Limited quantity: 5 L / 30 kg

### Other applicable information (inland waterways transport)

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

### Marine transport (IMDG)

14.1. UN number:UN186614.2. UN proper shipping name:Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Limited quantity: 5 L / 30 kg EmS: F-E, S-E

### Other applicable information (marine transport)

Viscous substance - excepted quantity if in containers with a capacity up to 30 I (subsection 2.3.2.5

IMDG Code).

Excepted Quantity: E1
Air transport (ICAO)

UN/ID number: UN1866

14.2. UN proper shipping name: Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3





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Limited quantity Passenger: Y344 / 10 L

IATA-packing instructions - Passenger:355IATA-max. quantity - Passenger:60 LIATA-packing instructions - Cargo:366IATA-max. quantity - Cargo:220 L

### 14.5. Environmental hazards

Dangerous for the environment: no

### 14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

1999/13/EC (VOC): < 5 %; < 90 g/l

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment

restrictions for child bearing mothers and nursing.

Water contaminating class (D): 2 - water contaminating

#### 15.2. Chemical safety assessment

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

### **SECTION 16: Other information**

### Full text of R phrases referred to under Sections 2 and 3

10 Flammable.

20 Harmful by inhalation.

21/22 Harmful in contact with skin and if swallowed.

Harmful if swallowed.
Causes severe burns.
Irritating to eyes and skin.

40 Limited evidence of a carcinogenic effect.

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

Very toxic to aquatic organisms.Possible risks of irreversible effects.

### Full text of H statements referred to under Sections 2 and 3

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

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### **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.)