

# 00359-1147

# SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier TIP TOP COROFLAKE 3000 Comp. A Art.-No. 590 3000, 593 3005 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Coating 1.3. Details of the supplier of the safety data sheet TIP TOP Oberflaechenschutz Elbe GmbH Heuweg 4 D-06886 Wittenberg +49(0)3491/635-50 Telephone: Telefax: +49(0)3491/635-552 Responsible for the safety data sheet: sds@gbk-ingelheim.de 1.4. Emergency telephone

number:

Emergency telephone :+49 (0) 6132 / 84463 (GBK Gefahrgut Buero GmbH, 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 Irrit. 2 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 irritation. Causes skin irritation. Causes damage to organs through prolonged or repeated exposure.

#### 2.2. Label elements

**Pictograms:** 

GHS02-GHS07-GHS08

Danger



Signal word:

Hazardous components which must be listed on the label Styrene

#### Hazard statements

H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H319	Causes serious eye irritation.

Causes skin irritation.

# TIP TOP COROFLAKE 3000 Comp. A

#### 00359-1147

H315

H372	Causes damage to organs through prolonged or repeated exposure.
Precautionary state	ements
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	
Vanaura may form a	volocivo mixturo with air

Vapours may form explosive mixture with air.

#### **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	10 - 20 %
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		

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.

#### 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.

#### Safety Data Sheet according to Regulation (EC) No 1907/2006 TIP TOP Oberflaechenschutz Elbe GmbH Revision date: 31.01.2013 Revision No: 1.01

#### TIP TOP COROFLAKE 3000 Comp. A

00359-1147

# 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.

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

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. 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



#### TIP TOP COROFLAKE 3000 Comp. A

00359-1147

# 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

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

#### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
100-42-5	Styrene	100	430		TWA (8 h)	WEL
		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.

#### 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:	Beige / Grey
Odour:	Pungent

#### **Changes in the physical state** Boiling point:

Test method

145 °C



# TIP TOP COROFLAKE 3000 Comp. A



Flash point:	34 °C
Lower explosion limits:	1,1 vol. %
Upper explosion limits:	8,0 vol. %
Ignition temperature:	490 °C
Density:	1,30 g/cm³
Water solubility: (at 20 °C)	Immiscible
Viscosity / dynamic:	10500 mPa⋅s
Viscosity / kinematic: (at 40 °C)	> 20,5 mm²/s

# 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

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 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

# Safety Data Sheet according to Regulation (EC) No 1907/2006TIP TOP Oberflaechenschutz Elbe GmbHRevision date: 31.01.2013Revision No: 1,01

#### TIP TOP COROFLAKE 3000 Comp. A

#### REMA I I D I I D I I D I

#### 00359-1147

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. Styrene 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.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN1866
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
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

Safety Data Sheet according to Regulation (EC) No 1907/2006 TIP TOP Oberflaechenschutz Elbe GmbH Revision No: 1,01 Revision date: 31.01.2013

# TIP TOP COROFLAKE 3000 Comp. A

00359-1147

00359-1147		
Inland waterways transport (ADN)		
<u>14.1. UN number:</u>	UN1866	
14.2. UN proper shipping name:	Resin solution	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	III	
Hazard label:	3	
	J	
Classification code:	3	
Limited quantity:	F1 5 L / 30 kg	
	5 L / 50 Kg	
Marine transport (IMDG)	UN1866	
<u>14.1. UN number:</u>		
14.2. UN proper shipping name:	Resin solution	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	 	
Hazard label:	3	
	AND	
	$\langle \underline{\bullet} \rangle$	
	3	
Limited quantity:	5 L / 30 kg	
EmS:	F-E, S-E	
Air transport (ICAO)		
UN/ID number:	UN1866	
14.2. UN proper shipping name:	Resin solution	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	III	
Hazard label:	3	
	3	
Limited quantity Passenger:	•	Y344 / 10 L
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		
Dangerous for the environment:	no	
14.6. Special precautions for user	110	
Handle in accordance with good industrial hyg	iene and safety practic	ce.
14.7. Transport in bulk according to Annex II		
The transport takes place only in approved and		
		'9. 
SECTION 15: Regulatory information		
		sifis for the substance or minture
15.1. Safety, health and environmental regul	ations/legislation spe	cinc for the substance or mixture
EU regulatory information 1999/13/EC (VOC):		
	< 5 %; < 90 g/l	
National regulatory information	Observe area law	at reatrictions for yours seents. Observe seents
Employment restrictions:		nt restrictions for young people. Observe employment bearing mothers and nursing.
Water contaminating class (D):	2 - water contaminat	



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



#### TIP TOP COROFLAKE 3000 Comp. A

00359-1147

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

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

- 10 Flammable.
- 20 Harmful by inhalation.
- 36/38 Irritating to eyes and skin.

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

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H372 Causes damage to organs through prolonged or repeated exposure.

#### 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.)

