



according to Regulation (EC) No 1907/2006

#### **TIP TOP COROFLAKE 60 COMP A**

Revision date: 03.12.2019 Product code: 00359-1035 Page 1 of 11

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

#### 1.1. Product identifier

TIP TOP COROFLAKE 60 COMP A

Art.-No.

590 0648, 590 0924, 590 1070, 590 1700, 590 1710, 590 1750, 590 2560, 590 2880, 590 2969

## 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

Company name: TIP TOP Oberflaechenschutz 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 INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

number: In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

#### **SECTION 2: Hazards identification**

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

## Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2 Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

## 2.2. Label elements

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

# Hazard components for labelling

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

bis-[4-(2,3-epoxipropoxi)phenyl]propane

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane

Signal word: Danger

Pictograms:







#### **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.





according to Regulation (EC) No 1907/2006

#### **TIP TOP COROFLAKE 60 COMP A**

Revision date: 03.12.2019 Product code: 00359-1035 Page 2 of 11

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

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.

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.

P273 Avoid release to the environment.

## 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.

Vapours may form explosive mixture with air.

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

## 3.2. Mixtures

#### **Chemical characterization**

Epoxy resin formulation, contains solvents



according to Regulation (EC) No 1907/2006

## **TIP TOP COROFLAKE 60 COMP A**

Revision date: 03.12.2019 Product code: 00359-1035 Page 3 of 11

#### **Hazardous components**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification	•	•	
25068-38-6	Reaction product: bisphenol-A-(epi 700)	< 55 %		
	500-033-5	603-074-00-8	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.			
141-78-6	Ethyl acetate		< 15 %	
	205-500-4	607-022-00-5	01-2119475103-46	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE	1066		
1675-54-3	bis-[4-(2,3-epoxipropoxi)phenyl]pro		< 10 %	
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.			
100-51-6	Benzyl alcohol		< 10 %	
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4, Eye Irrit			
64742-49-0	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclioalkanes			< 10 %
	920-750-0		01-2119473851-33	
	Flam. Liq. 2, STOT SE 3, Asp. Tox.			
68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.			< 5 %
	271-846-8	603-103-00-4	01-2119485289-22	
	Skin Irrit. 2, Skin Sens. 1; H315 H3			
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane			< 5 %
	618-939-5		01-2119463471-41	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H315 H319 H317 H412			

Full text of H and EUH statements: 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.

#### After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

In the event of symptoms refer for medical treatment.

## After contact with skin

Wash off immediately with soap and plenty of water.

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

Summon a doctor immediately.

Rinse out mouth and give plenty of water to drink.

Never give anything by mouth to an unconscious person.





according to Regulation (EC) No 1907/2006

# **TIP TOP COROFLAKE 60 COMP A**

Revision date: 03.12.2019 Product code: 00359-1035 Page 4 of 11

Call a physician immediately.

Induce vomiting only upon the advice of a physician.

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

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

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.

#### Unsuitable extinguishing media

Full water jet

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

Fire may produce:

carbon monoxide and carbon dioxide

#### 5.3. Advice for firefighters

Use breathing apparatus with independent air supply.

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.

Use personal protective clothing.

#### 6.2. Environmental precautions

Clean contaminated surface thoroughly.

Do not discharge into the drains/surface waters/ground water.

## 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 see section 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

# Advice on safe handling

Keep container tightly closed.

Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing.





according to Regulation (EC) No 1907/2006

#### TIP TOP COROFLAKE 60 COMP A

Revision date: 03.12.2019 Product code: 00359-1035 Page 5 of 11

## Advice on protection against fire and explosion

Do not smoke - volatile.

Keep away from open flames, hot surfaces and sources of ignition.

The product is easy combustible.

Take precautionary measures against static discharges.

#### 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.

Protect against direct sun radiation.

#### Hints on joint storage

Incompatible with:

Oxidizing agents, Amines, Acids and bases.

#### 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/m³	fibres/ml	Category	Origin
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL

## 8.2. Exposure controls

## Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

## 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.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothes before re-use.

#### 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)



according to Regulation (EC) No 1907/2006

#### **TIP TOP COROFLAKE 60 COMP A**

Revision date: 03.12.2019 Product code: 00359-1035 Page 6 of 11

#### Respiratory protection

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

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

Physical state: Viscous liquid
Colour: Various
Odour: Fruity

Test method
Test method

pH-Value: n.d. Changes in the physical state

Melting point:n.d.Initial boiling point and boiling range:n.d.Sublimation point:n.a.Softening point:n.d.

Flash point: 2 °C

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

# **Explosive properties**

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

Lower explosion limits: n.d. Upper explosion limits: n.d. Ignition temperature:  $\rm > 300\ ^{\circ}C$ 

**Auto-ignition temperature** 

Solid: n.a. Gas: n.a.
Decomposition temperature: n.d.

**Oxidizing properties** 

Not oxidising.

Vapour pressure: n.d.

Density (at 20 °C): 1,25 g/cm³

Bulk density: n.a.

Water solubility: Immiscible

(at 20 °C)

Solubility in other solvents

n.d.

Partition coefficient: n.d.

Viscosity / dynamic: 1100 - 1500 mPa·s

(at 25 °C)

Viscosity / kinematic: > 20,5 mm²/s

(at 40 °C)

Flow time: > 44 s 6 DIN/ISO 2431

(at 25 °C)

Vapour density: n.d.



according to Regulation (EC) No 1907/2006

TIP TOP COROFLAKE 60 COMP A				
Revision date: 03.12.2019	Product code: 00359-1035	Page 7 of 11		
Evaporation rate:	n.d.			
Solvent separation test:	n.d.			
Solvent content:	25 %			
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 acids, alkalies and oxidizing agents Reactions with amines.

# 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Protect against direct sun radiation.

#### 10.5. Incompatible materials

Oxidizing agents, Amines, Acids and bases.

#### 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide phenol

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Acute toxicity

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

No toxicological data available.

# Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### Sensitising effects

May cause an allergic skin reaction. (Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700); bis-[4-(2,3-epoxipropoxi)phenyl]propane; Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.; Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane)

## Carcinogenic/mutagenic/toxic effects for reproduction

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

## STOT-single exposure

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

## STOT-repeated exposure

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

## **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.

## **Practical experience**



TIP TOP Oberflaechenschutz Elbe GmbH

according to Regulation (EC) No 1907/2006

#### TIP TOP COROFLAKE 60 COMP A

Revision date: 03.12.2019 Product code: 00359-1035 Page 8 of 11

#### Other observations

Inhalation of vapours in high concentration can cause narcotic effects.

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.

Toxic to aquatic life with long lasting effects.

# 12.2. Persistence and degradability

Not readily biodegradable.

## 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.

#### **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

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)

**14.1. UN number**: UN 1866

14.2. UN proper shipping name: RESIN SOLUTION

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



according to Regulation (EC) No 1907/2006

## **TIP TOP COROFLAKE 60 COMP A**

Revision date: 03.12.2019 Product code: 00359-1035 Page 9 of 11



Classification code: F1

Limited quantity: 5 L / 30 kg

Excepted quantity: E1
Transport category: 3
Tunnel restriction code: E

## Other applicable information (land transport)

Receptacle max. 450 L, ADR subsection 2.2.3.1.4

#### Inland waterways transport (ADN)

<u>14.1. UN number:</u> UN 1866

14.2. 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

Excepted quantity: E1

## Marine transport (IMDG)

**14.1. UN number:** UN 1866

14.2. UN proper shipping name: RESIN SOLUTION (Epoxy resin)

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



Marine pollutant: Yes
Limited quantity: 5 L / 30 kg
Excepted quantity: E1
EmS: F-E, S-E

# Other applicable information (marine transport)

Receptacle max. 450 L, IMDG Code subsection 2.3.2.2

# 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):314.4. Packing group:IIIHazard label:3



Limited quantity Passenger: 10 L



#### TIP TOP Oberflaechenschutz Elbe GmbH

according to Regulation (EC) No 1907/2006

#### TIP TOP COROFLAKE 60 COMP A

Revision date: 03.12.2019 Product code: 00359-1035 Page 10 of 11

Passenger LQ: Y344
Excepted quantity: E1

IATA-packing instructions - Passenger:355IATA-max. quantity - Passenger:30 L (\*)IATA-packing instructions - Cargo:366IATA-max. quantity - Cargo:100 L (\*)

Other applicable information (air transport)

\*) [3.3.3.1 IATA DGR]

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



#### 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 Marpol 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

2004/42/EC (VOC): 25 %; 300 g/l

Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS

(SEVESO III):

Additional information: E2

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils 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.

## 15.2. Chemical safety assessment

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

# **SECTION 16: Other information**

## 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



TIP TOP Oberflaechenschutz Elbe GmbH

according to Regulation (EC) No 1907/2006

## **TIP TOP COROFLAKE 60 COMP A**

Revision date: 03.12.2019 Product code: 00359-1035 Page 11 of 11

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

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

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

## **Further Information**

**EUH066** 

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.

Repeated exposure may cause skin dryness or cracking.

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.)