

according to Regulation (EC) No 1907/2006

TIP TOP COROFLAKE 300 Comp. A

Revision date: 09.05.2025

Product code: 00359-1281

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

1.1. Product identifier

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Art.-No.

590 2300, 590 2320

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

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@gl	bk-ingelheim.de
1.4. Emergency telephone number:	INTERNATIONAL: +49 - (0) 6132 - 84463, GB Public Poisons Information Line: +353 (0) 1 80 week)	· · · · · · · · · · · · · · · · · · ·

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Muta. 2; H341 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Formaldehyde, oligomeric reaction product with 1-chloro-2,3-epoxypropane and phenol 2,3-epoxypropyl o-tolyl ether Benzyl alcohol

Signal word:

Pictograms:



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P202 Do not handle until all safety precautions have been read and underst	
	ood.
P280 Wear protective gloves/protective clothing/eye protection/face protecti	on.
P302+P352 IF ON SKIN: Wash with plenty of water.	
P308+P313 IF exposed or concerned: Get medical advice/attention.	



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P273 P405

Avoid release to the environment.

Store locked up.

Special labelling of certain mixtures

EUH205Contains epoxy constituents. May produce an allergic reaction.EUH211Warning! 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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture containing following substances with additives :

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No	1272/2008)		
9003-36-5	Formaldehyde, oligomeric reaction product with 1-chloro-2,3-epoxypropane and phenol			75 - < 80 %
	500-006-8		01-2119454392-40	
	Skin Irrit. 2, Skin Sens. 1, Aquatic	Chronic 2; H315 H317 H411		
2210-79-9	2,3-epoxypropyl o-tolyl ether			< 10 %
	218-645-3	603-056-00-X		
	Muta. 2, Skin Irrit. 2, Skin Sens. 1			
100-51-6	Benzyl alcohol			< 5 %
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Eye Irrit. 2, Skin Ser			
13463-67-7	Titanium dioxide			< 5 %
	236-675-5	022-006-00-2	01-2119489379-17	
	Carc. 2; H351			

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		
9003-36-5	500-006-8	Formaldehyde, oligomeric reaction product with 1-chloro-2,3-epoxypropane and phenol	75 - < 80 %
	dermal: LD50 = > 400 mg/kg; oral: LD50 = > 2000 mg/kg		
100-51-6	202-859-9	Benzyl alcohol	< 5 %
	oral: ATE 1200) mg/kg	

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 < = $10 \ \mu$ m.



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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 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

Do not induce vomiting. Drink plenty of water or milk. 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

Suspected of causing genetic defects. Causes skin irritation. May cause an allergic skin reaction.

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

Foam, carbon dioxide (CO2), 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 and carbon dioxide Phenoles

5.3. Advice for firefighters

Use breathing apparatus with independent air supply. Protective suit.

Additional information

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

General advice

Ensure adequate ventilation.



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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. Clean contaminated surface thoroughly.

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). 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. Use only in thoroughly ventilated areas. Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

No special protective measures against fire required.

Advice on general occupational hygiene

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.

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. Protect against direct sun radiation. Avoid temperatures above 25° C.

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)

Coating

SECTION 8: Exposure controls/personal protection



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8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
13463-67-7	Titanium dioxide, total inhalable dust	-	10		TWA (8 h)	

DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
100-51-6	Benzyl alcohol				
Worker DNEL,	long-term	inhalation	systemic	22 mg/m ³	
Worker DNEL,	acute	inhalation	systemic	110 mg/m ³	
Worker DNEL,	long-term	dermal	systemic	8 mg/kg bw/day	
Worker DNEL,	acute	dermal	systemic	40 mg/kg bw/day	

PNEC values

CAS No	Substance			
Environmental compartment Value				
100-51-6	100-51-6 Benzyl alcohol			
Freshwater 1 mg/l				
Marine water 0,1 mg/l				
Freshwater sediment 5,27 mg/kg				
Marine sediment 0,527 mg/l		0,527 mg/kg		
Soil 0,456				

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

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

No personal respiratory protective equipment normally required. 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

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Information on basic physical and	d chemical properties	
Physical state:	Pasty	
Colour:	Various	
Odour:	Aromatic	
Changes in the physical state		
Melting point/freezing point:		n. d.
Boiling point or initial boiling point ar boiling range:	10	n. d.
Sublimation point:		n.a.
Softening point:		n. d.
Flash point:		> 100 °C
Flammability Solid/liquid:		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: Gas:		n.a. n.a.
Decomposition temperature:		n. d.
pH-Value:		n. d.
Viscosity / dynamic: (at 25 °C)		8000 mPa·s
Viscosity / kinematic:		n. d.
Flow time:		n. d.
Water solubility:		Immiscible
(at 20 °C)		
Solubility in other solvents n. d.		
Partition coefficient n-octanol/water:		n. d.
Vapour pressure:		n. d.
Density (at 20 °C):		1,26 g/cm ³
Bulk density:		n.a.
Relative vapour density:		n. d.
Other information		
Information with regard to physica Oxidizing properties Not oxidising.	II hazard classes	
Other safety characteristics		
Solvent separation test:		n. d.
Evaporation rate:		n. d.



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Further 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 oxidising 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

Strong oxidizing agents Amines Acids and bases

10.6. Hazardous decomposition products

No hazardous decomposition products known. Fire may produce: Carbon monoxide and carbon dioxide Phenol

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met. No toxical dates available.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (Formaldehyde, oligomeric reaction product with 1-chloro-2,3-epoxypropane and phenol; 2,3-epoxypropyl o-tolyl ether; Benzyl alcohol) Contains epoxy constituents. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (2,3-epoxypropyl o-tolyl ether) Carcinogenicity: 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

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.



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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

SECTION 12: Ecological information

12.1. Toxicity

Ecological dates 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

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

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

Hazard to waters.

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 or ID number: UN 3082	
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQU	ID, N.O.S.
(Epoxy resin)	
14.3. Transport hazard class(es): 9	



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<u>14.4. Packing group:</u> Hazard label:	9	
	一	
	AID	
	9	
Classification code:	M6	
Special Provisions:	274 335 375 601	
Limited quantity:	5 L / 30 kg	
Excepted quantity:	E1	
Transport category:	3	
Hazard No:	90	
Tunnel restriction code:	-	
Inland waterways transport (ADN)	UN 3082	
14.1. UN number or ID number:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	
14.2. UN proper shipping name:	(Epoxy resin)	
14.3. Transport hazard class(es):	9	
14.4. Packing group:		
Hazard label:	9	
	9	
Classification code:	M6	
Special Provisions:	274 335 375 601	
Limited quantity:	5 L / 30 kg	
Excepted quantity:	E1	
Marine transport (IMDG)		
14.1. UN number or ID number:	UN 3082	
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	
	(Epoxy resin)	
14.3. Transport hazard class(es):	9	
14.4. Packing group:		
Hazard label:	9	
•• • • • •		
Marine pollutant:	Yes	
Special Provisions: Limited quantity:	274, 335, 969 5 L / 30 kg	
Excepted quantity:	E1	
EmS:	F-A, S-F	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 3082	
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	
	(Epoxy resin)	
14.3. Transport hazard class(es):	9	
14.4. Packing group:		
Hazard label:	9	
	9	



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Special Provisions:	A97 A158 A197			
Limited quantity Passenger:	30 kg G			
Passenger LQ:	Y964			
Excepted quantity:	E1			
IATA-packing instructions - Passenger:		964		
IATA-max. quantity - Passenger:		450 L		
IATA-packing instructions - Cargo:		964		
IATA-max. quantity - Cargo:		450 L		
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	Yes		¥2	

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 75	
Directive 2004/42/EC on VOC in paints and varnishes:	0 %
Information according to Directive 2012/18/EU (SEVESO III):	E2 Hazardous to the Aquatic Environment
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):	2 - obviously hazardous to water
IF 9. Chemical adjate assessment	

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): 2,6,9,10,11,12,13,14,15. Changes in chapter:



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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 Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Muta. 2; H341	Calculation method
Skin Irrit. 2; H315	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

Harmful if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of causing genetic defects.
Suspected of causing cancer.
Toxic to aquatic life with long lasting effects.
Contains epoxy constituents. May produce an allergic reaction.
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)"



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(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)