

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP COROFLAKE ACCELERATOR 1

Revision date: 23.09.2019

Product code: 00359-1232

Page 1 of 10

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

TIP TOP COROFLAKE ACCELERATOR 1

Art.-No.

590 2985, 590 2986

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Accelerator

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number:

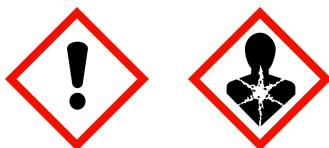
INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)
In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:
Acute toxicity: Acute Tox. 4
Serious eye damage/eye irritation: Eye Irrit. 2
Respiratory or skin sensitisation: Skin Sens. 1A
Carcinogenicity: Carc. 2
Reproductive toxicity: Repr. 1B
Hazardous to the aquatic environment: Aquatic Chronic 3
Hazard Statements:
Harmful if inhaled.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
May damage fertility. Suspected of damaging the unborn child.
Harmful to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

Cobalt bis (2-ethylhexanoate)
N,N-Dimethylaniline
Xylene (mixed isomers)

Signal word: Warning**Pictograms:****Hazard statements**

H332 Harmful if inhaled.
H319 Causes serious eye irritation.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP COROFLAKE ACCELERATOR 1

Revision date: 23.09.2019

Product code: 00359-1232

Page 2 of 10

| | |
|--------|---|
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |
| H360Fd | May damage fertility. Suspected of damaging the unborn child. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements

| | |
|----------------|--|
| P261 | Avoid breathing vapour. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| 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. |
| P501 | Dispose of contents/container to in accordance with local and national regulations. |

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

Mixture containing following substances with additives

Hazardous components

| CAS No | Chemical name | Quantity | | |
|-----------|---|--------------|------------------|---------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 6846-50-0 | 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate | | | < 75 % |
| | 229-934-9 | | 01-2119451093-47 | |
| | Aquatic Chronic 3; H412 | | | |
| 136-52-7 | Cobalt bis (2-ethylhexanoate) | | | < 25 % |
| | 205-250-6 | | 01-2119524678-29 | |
| | Repr. 1B, Eye Irrit. 2, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 3; H360Fd H319 H317 H400 H412 | | | |
| 121-69-7 | N,N-Dimethylaniline | | | < 10 % |
| | 204-493-5 | 612-016-00-0 | 01-2119935241-47 | |
| | Carc. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Aquatic Chronic 2; H351 H331 H311 H301 H411 | | | |
| 1330-20-7 | Xylene (mixed isomers) | | | < 10 % |
| | 215-535-7 | 601-022-00-9 | 01-2119488216-32 | |
| | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H226 H332 H312 H315 H319 H335 H373 H304 H412 | | | |
| 128-37-0 | 2,6-bis(1,1-dimethylethyl)-4-methylphenol | | | < 2,5 % |
| | 204-881-4 | | 01-2119480433-40 | |
| | Aquatic Chronic 1; H410 | | | |

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.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP COROFLAKE ACCELERATOR 1

Revision date: 23.09.2019

Product code: 00359-1232

Page 3 of 10

Call a physician immediately.

After inhalation

Move to fresh air in case of accidental inhalation of vapours.
In the event of symptoms refer for medical treatment.

After contact with skin

In case of contact with skin wash off immediately with plenty of water.
Seek medical treatment immediately.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lens.
Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting.
Rinse mouth.
Never give anything by mouth to an unconscious person.
Summon a doctor immediately.
Induce vomiting only upon the advice of a physician.
Attention. Beware, danger of aspiration.

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

Harmful if inhaled.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
May damage fertility. Suspected of damaging the unborn child.

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 (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and 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

In case of vapour formation use respirator.
Ensure adequate ventilation.
Use personal protective clothing.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.
Inform competent authority about release into the sewage, ground or into waters.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

TIP TOP COROFLAKE ACCELERATOR 1

Revision date: 23.09.2019

Product code: 00359-1232

Page 4 of 10

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.
- Clean contaminated surface thoroughly.

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.
- Handle and open container with care.
- Use only in thoroughly ventilated areas.
- Do not breathe vapours.
- Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

- Keep away from sources of ignition - No smoking.

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.
- Recommended storage temperature: 5°C - 30°C

Hints on joint storage

- Incompatible with strong acids and oxidizing agents.

Further information on storage conditions

- Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Accelerator

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

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|----------------------------|-----|-------------------|-----------|---------------|--------|
| 128-37-0 | 2,6-Di-tert-butyl-p-cresol | - | 10 | | TWA (8 h) | WEL |
| 121-69-7 | N,N-Dimethylaniline | 5 | 25 | | TWA (8 h) | WEL |
| | | 10 | 50 | | STEL (15 min) | WEL |
| 1330-20-7 | Xylene: mixed isomers | 50 | 220 | | TWA (8 h) | WEL |
| | | 100 | 441 | | STEL (15 min) | WEL |

Biological Monitoring Guidance Values (EH40)

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|-----------|-------------------------------------|-----------------------------------|--------------|---------------|---------------|
| 1330-20-7 | Xylene, o-, m-, p- or mixed isomers | methyl hippuric acid (creatinine) | 650 mmol/mol | urine | Post shift |

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

TIP TOP COROFLAKE ACCELERATOR 1

Revision date: 23.09.2019

Product code: 00359-1232

Page 5 of 10

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------|---|----------------|--------|-----------------------|
| 128-37-0 | 2,6-bis(1,1-dimethylethyl)-4-methylphenol | | | |
| Worker DNEL, | | inhalation | | 3,5 mg/m ³ |
| Worker DNEL, | | dermal | | 0,5 mg/kg bw/day |

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)

Respiratory protection

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

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|-----------------|------------|
| Physical state: | Liquid |
| Colour: | Colourless |
| Odour: | Mild |

pH-Value: n.d.

Changes in the physical state

Melting point: n.d.

Initial boiling point and boiling range: 137 °C

Sublimation point: n.a.

Softening point: n.d.

Flash point: 73 °C

Flammability

Solid: n.a.

Gas: n.a.

Test method

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

TIP TOP COROFLAKE ACCELERATOR 1

Revision date: 23.09.2019

Product code: 00359-1232

Page 6 of 10

Explosive properties

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

| | |
|-------------------------|------------|
| Lower explosion limits: | 1,2 vol. % |
| Upper explosion limits: | 7,0 vol. % |
| Ignition temperature: | 370 °C |

Auto-ignition temperature

| | |
|--------|------|
| Solid: | n.a. |
| Gas: | n.a. |

Decomposition temperature: n.d.

Oxidizing properties

Not oxidising.

| | |
|---------------------------------|---------------------|
| Vapour pressure: | 0,7 hPa |
| Density (at 20 °C): | 1 g/cm ³ |
| Bulk density: | n.a. |
| Water solubility: (at 20 °C) | Immiscible |

Solubility in other solvents

n.d.

| | |
|--------------------------|--------|
| Partition coefficient: | n.d. |
| Viscosity / dynamic: | n.d. |
| Viscosity / kinematic: | n.d. |
| Flow time: | n.d. |
| Vapour density: | n.d. |
| Evaporation rate: | n.d. |
| Solvent separation test: | n.d. |
| Solvent content: | < 10 % |

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 and strong oxidizing agents.
Reactions with peroxides.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.
Protect against direct sun radiation.
Polymerisation occurs when exposed to heat.

10.5. Incompatible materials

Acids and oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x)



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP COROFLAKE ACCELERATOR 1

Revision date: 23.09.2019

Product code: 00359-1232

Page 7 of 10

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if inhaled.
No toxicological data available.

Irritation and corrosivity

Causes serious eye irritation.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (Cobalt bis (2-ethylhexanoate))

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (N,N-Dimethylaniline)
May damage fertility. Suspected of damaging the unborn child. (Cobalt bis (2-ethylhexanoate))
Germ cell mutagenicity: 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.

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available.
Harmful to aquatic life with long lasting effects.

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.

Further information

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Where possible recycling is preferred to disposal.
Can be incinerated, when in compliance with local regulations.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP COROFLAKE ACCELERATOR 1

Revision date: 23.09.2019

Product code: 00359-1232

Page 8 of 10

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 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: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of this transport regulation.

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 30: Cobalt bis (2-ethylhexanoate)

2004/42/EC (VOC): 5,04 %



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP COROFLAKE ACCELERATOR 1

Revision date: 23.09.2019

Product code: 00359-1232

Page 9 of 10

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

Not subject to 2012/18/EU (SEVESO III)

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. Observe employment restrictions for women of child-bearing age.

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
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)

| | |
|--------|--|
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H360Fd | May damage fertility. Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

TIP TOP COROFLAKE ACCELERATOR 1

Revision date: 23.09.2019

Product code: 00359-1232

Page 10 of 10

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.)