

Trade name: 70000-00106, ink, black**Current version :** 1.0.0, issued: 11.03.2021**Replaced version:** -, issued: -**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****70000-00106, ink, black****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**printer's ink
Ink**Uses advised against**

No data available.

1.3 Details of the supplier of the safety data sheet**Address**Paul Leibinger GmbH & Co. KG
Daimlerstasse 14
78532 TuttlingenTelephone no. +49 (0)7461 9286 0
Fax no. +49 (0)7461 9286 119
e-mail info@leibinger-group.com**Advice on Safety Data Sheet**

sdb_info@umco.de

1.4 Emergency telephone numberFor medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**Eye Irrit. 2; H319
Flam. Liq. 2; H225
Repr. 1B; H360D
Skin Sens. 1; H317
STOT SE 3; H336**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS02



GHS07



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

butanone

Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)

Hazard statement(s)

H225 Highly flammable liquid and vapour.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H360D May damage the unborn child.

Hazard statements (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s)

P201 Obtain special instructions before use.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P240 Ground and bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/lighting/ equipment.
 P242 Use non-sparking tools.
 P243 Take action to prevent static discharges.
 P261 Avoid breathing mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 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.
 P370+P378 In case of fire: Use sand, fire powder, carbon dioxide or foam to extinguish.

Supplemental label elements

"Restricted to professional users"

2.3 Other hazards

PBT assessment
 No data available.
 vPvB assessment
 No data available.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

| No | Substance name | Additional information | |
|----|--|---|------------------------|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration % |
| 1 | butanone | | |
| | 78-93-3 201-159-0 606-002-00-3 01-2119457290-43 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066 | >= 70.00 - < 90.00 wt% |
| 2 | ethanol | | |
| | 64-17-5 200-578-6 603-002-00-5 01-2119457610-43 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 | >= 5.00 - <= 10.00 wt% |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5- | | |

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

| | | | |
|---|--|-------------------|-----|
| | nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | | |
| - 939-191-9 - 01-2120764854-42 | Skin Sens. 1B; H317 Repr. 1B; H360D STOT RE 2; H373 | >= 5.00 - < 10.00 | wt% |
| 4 | isopropyl acetate | | |
| 108-21-4 203-561-1 607-024-00-6 01-2119537214-46 | EUH066 Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336 | < 5.00 | wt% |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|-------------------------------|------------------|--------------------|
| 2 | - | Eye Irrit. 2; H319: C >= 50% | - | - |
| 4 | C | - | - | - |

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician. In case of allergic symptoms, especially respiratory tract related, seek medical help immediately.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

After skin contact

Rinse hands with plenty of cold or tepid water and soap.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Nitrogen oxides (NO_x); chromium compounds

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Containers close to fire should be transferred to a safe place.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep away from ignition sources. Refer to protective measures listed in sections 7 and 8.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

Advice on protection against fire and explosion

Vapours may form explosive mixtures with air. Isolate from sources of heat, sparks and open flame. Take precautionary measures against electrostatic loading (earthing necessary during loading operations). Use explosion-proof equipment/fittings and non-sparking tools.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

Recommended storage temperature

Value 10 - 25 °C

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

Recommendations

Ink for industrial CIJ printers

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

Occupational exposure limit values

| No | Substance name | CAS no. | EC no. |
|----|---|---|------------------|
| 1 | butanone | 78-93-3 | 201-159-0 |
| | 2000/39/EC | | |
| | Butanone | | |
| | WEL short-term (15 min reference period) | 900 mg/m ³ | 300 ppm |
| | WEL long-term (8-hr TWA reference period) | 600 mg/m ³ | 200 ppm |
| | List of approved workplace exposure limits (WELs) / EH40 | | |
| | Butan-2-one | | |
| | WEL short-term (15 min reference period) | 899 mg/m ³ | 300 ppm |
| | WEL long-term (8-hr TWA reference period) | 600 mg/m ³ | 200 ppm |
| | Comments | Sk, BMGV | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| | List of approved workplace exposure limits (WELs) / EH40 | | |
| | Ethanol | | |
| | WEL long-term (8-hr TWA reference period) | 1920 mg/m ³ | 1000 ppm |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | | 939-191-9 |
| | List of approved workplace exposure limits (WELs) / EH40 | | |
| | Chromium (VI) compounds (as Cr) | | |
| | WEL long-term (8-hr TWA reference period) | 0.01 mg/m ³ | |
| | Comments | Carc, sen, BMGV | |
| | List of approved workplace exposure limits (WELs) / EH40 | | |
| | Chromium (VI) compounds (as Cr) | | |
| | WEL long-term (8-hr TWA reference period) | 0,025 mg/m ³ (process generated)1 | |
| | Comments | Carc, sen, BMGV | |
| 4 | isopropyl acetate | 108-21-4 | 203-561-1 |
| | List of approved workplace exposure limits (WELs) / EH40 | | |
| | Isopropyl acetate | | |
| | WEL short-term (15 min reference period) | 849 mg/m ³ | 200 ppm |

DNEL, DMEL and PNEC values**DNEL values (worker)**

| No | Substance name | CAS / EC no | | |
|----|--|---------------------|----------|--------------------------|
| | Route of exposure | Exposure time | Effect | Value |
| 1 | butanone | 78-93-3 | | |
| | | | | 201-159-0 |
| | dermal | Long term (chronic) | systemic | 1161 mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 600.00 mg/m ³ |
| 2 | ethanol | 64-17-5 | | |
| | | | | 200-578-6 |
| | dermal | Long term (chronic) | systemic | 343 mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 950 mg/m ³ |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear | - | | 939-191-9 |

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

| | | | | |
|---|---|---------------------|----------|-------------------------------|
| | alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | | | |
| | dermal | Long term (chronic) | systemic | 0.02 mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 0.12 mg/m ³ |
| 4 | isopropyl acetate | | | 108-21-4 203-561-1 |
| | dermal | Long term (chronic) | systemic | 43 mg/kg/day |
| | inhalative | Short term (acut) | systemic | 850 mg/m ³ |
| | inhalative | Long term (chronic) | systemic | 420 mg/m ³ |
| | inhalative | Long term (chronic) | local | 420 mg/m ³ |

DNEL value (consumer)

| No | Substance name | | | CAS / EC no |
|----|--------------------------|---------------------|----------|-------------------------------|
| | Route of exposure | Exposure time | Effect | Value |
| 1 | butanone | | | 78-93-3 201-159-0 |
| | oral | Long term (chronic) | systemic | 31 mg/kg/day |
| | dermal | Long term (chronic) | systemic | 412 mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 106 mg/m ³ |
| 2 | ethanol | | | 64-17-5 200-578-6 |
| | oral | Long term (chronic) | systemic | 87 mg/kg/day |
| | dermal | Long term (chronic) | systemic | 206 mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 114 mg/m ³ |
| 3 | isopropyl acetate | | | 108-21-4 203-561-1 |
| | oral | Long term (chronic) | systemic | 26 mg/kg/day |
| | dermal | Long term (chronic) | systemic | 26 mg/kg/day |
| | inhalative | Short term (acut) | systemic | 510 mg/m ³ |
| | inhalative | Long term (chronic) | systemic | 252 mg/m ³ |
| | inhalative | Long term (chronic) | local | 252 mg/cm ² |

PNEC values

| No | Substance name | | CAS / EC no |
|----|-------------------------------|-----------------------|------------------------------|
| | ecological compartment | Type | Value |
| 1 | butanone | | 78-93-3 201-159-0 |
| | water | fresh water | 55.8 mg/L |
| | water | marine water | 55.8 mg/L |
| | water | Aqua intermittent | 55.8 mg/L |
| | water | fresh water sediment | 284.74 mg/kg |
| | with reference to: dry weight | | |
| | water | marine water sediment | 284.7 mg/kg |
| | with reference to: dry weight | | |
| | soil | - | 22.5 mg/kg |
| | with reference to: dry weight | | |
| | sewage treatment plant | - | 709 mg/L |
| | secondary poisoning | - | 1000 mg/kg |
| | with reference to: food | | |
| 2 | ethanol | | 64-17-5 200-578-6 |
| | water | fresh water | 0.96 mg/L |
| | water | Aqua intermittent | 2.75 mg/L |
| | water | marine water | 0.79 mg/L |
| | water | fresh water sediment | 3.6 mg/kg dry weight |
| | water | marine water sediment | 2.9 mg/L |
| | soil | - | 0.63 mg/kg dry weight |
| | sewage treatment plant | - | 580 mg/L |

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

| | | | | |
|---|---|-----------------------|-----------------|------------------|
| | secondary poisoning | - | 0.38 | mg/kg food |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | | - | 939-191-9 |
| | water | fresh water | 0.1 | mg/L |
| | water | Aqua intermittent | 1 | mg/L |
| | water | fresh water sediment | 70.5 | mg/kg dry weight |
| | water | marine water | 0.01 | mg/L |
| | water | marine water sediment | 7.05 | mg/kg dry weight |
| | soil | - | 14 | mg/kg |
| | sewage treatment plant | - | 100 | mg/L |
| 4 | isopropyl acetate | | 108-21-4 | 203-561-1 |
| | water | fresh water | 0.22 | mg/L |
| | water | marine water | 0.022 | mg/L |
| | water | Aqua intermittent | 1.1 | mg/L |
| | water | fresh water sediment | 1.25 | mg/kg |
| | water | marine water sediment | 0.125 | mg/kg |

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Short term: filter apparatus, Filter A2

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

| | | | |
|----------------------|--------------|-----|-----|
| Appropriate Material | butyl rubber | | |
| Material thickness | > | 0.5 | mm |
| Breakthrough time | >= | 60 | min |

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| |
|-----------------------------|
| State of aggregation |
| liquid |

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

| | | | |
|--|-----------------------|----------------|-------------------|
| Form/Colour | | | |
| black | | | |
| Odour | | | |
| ketone-like | | | |
| pH value | | | |
| No data available | | | |
| Boiling point / boiling range | | | |
| Value | > | 77 | °C |
| Source | supplier | | |
| Melting point/freezing point | | | |
| No data available | | | |
| Decomposition temperature | | | |
| No data available | | | |
| Flash point | | | |
| Value | | -8 | °C |
| Source | supplier | | |
| Ignition temperature | | | |
| Value | > | 425 | °C |
| Source | supplier | | |
| Flammability | | | |
| No data available | | | |
| Lower explosion limit | | | |
| Value | | 1.8 | % vol |
| Source | supplier | | |
| Upper explosion limit | | | |
| Value | | 15 | % vol |
| Source | supplier | | |
| Vapour pressure | | | |
| No data available | | | |
| Relative vapour density | | | |
| No data available | | | |
| Relative density | | | |
| No data available | | | |
| Density | | | |
| Value | | 0.87 | g/cm ³ |
| Source | supplier | | |
| Solubility in water | | | |
| Source | supplier | | |
| Comments | partially miscible | | |
| Solubility | | | |
| No data available | | | |
| Partition coefficient n-octanol/water (log value) | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | butanone | 78-93-3 | 201-159-0 |
| | log Pow | 0.3 | |
| | Reference temperature | 40 | °C |
| | Method | OECD 117 | |
| | Source | ECHA | |
| 2 | ethanol | 64-17-5 | 200-578-6 |

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

| | | | |
|-----------------------|---|--------|------------------|
| log Pow | -0.35 | | |
| Reference temperature | 24 | | °C |
| with reference to | pH 7,4 | | |
| Method | OECD 107 | | |
| Source | ECHA | | |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | - | 939-191-9 |
| log Pow | 3.00 | - 3.80 | |
| Reference temperature | | 20 | °C |
| Method | OECD 105 | | |
| Source | ECHA | | |

| | | | |
|-----------------------|----------|----|-------|
| Viscosity | | | |
| Value | appr. | 6 | mPa*s |
| Reference temperature | | 20 | °C |
| Source | supplier | | |

| | | | |
|------------------------|--|----|---|
| Solvent content | | | |
| Value | | 83 | % |

| | | | |
|-----------------------|--|----|---|
| Solids content | | | |
| Value | | 17 | % |

| | | | |
|---------------------------------|--|--|--|
| Particle characteristics | | | |
| No data available | | | |

9.2 Other information

| | | | |
|--------------------------|--|--|--|
| Other information | | | |
| VOC: 83 % (w/w), 667 g/l | | | |

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

strong oxidizing agents

10.6 Hazardous decomposition products

None, if handled according to intended use.

SECTION 11: Toxicological information

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

| | | | |
|----------------------------|----------------|---------|--------|
| Acute oral toxicity | | | |
| No | Substance name | CAS no. | EC no. |

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

| 1 | butanone | 78-93-3 | 201-159-0 |
|-------------------|---|---------|------------------|
| LD50 | | 2054 | mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 423 | | |
| Source | ECHA / Read across | | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| LD50 | | 10470 | mg/kg bodyweight |
| Species | rat | | |
| with reference to | 95% ethanol in water | | |
| Method | OECD 401 | | |
| Source | ECHA | | |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)][1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | - | 939-191-9 |
| LD50 | > | 10000 | mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 401 | | |
| Source | ECHA | | |

| Acute dermal toxicity | | | |
|-----------------------|---|---------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)][1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | - | 939-191-9 |
| LD50 | > | 2000 | mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 402 | | |
| Source | ECHA | | |

| Acute inhalational toxicity | | | |
|-----------------------------|----------------|---------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | ethanol | 64-17-5 | 200-578-6 |
| LC50 | | 124.7 | mg/l |
| Duration of exposure | | 4 | h |
| State of aggregation | Vapour | | |
| Species | rat | | |
| Method | OECD 403 | | |
| Source | ECHA | | |

| Skin corrosion/irritation | | | |
|---------------------------|--------------------|---------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | butanone | 78-93-3 | 201-159-0 |
| Duration of exposure | | 4 | h |
| Species | rabbit | | |
| Method | OECD 404 | | |
| Source | ECHA / Read across | | |
| Evaluation | non-irritant | | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| Species | rabbit | | |

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Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

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|------------|---|
| Method | OECD 404 |
| Source | ECHA |
| Evaluation | non-irritant |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) |
| Species | rabbit |
| Method | OECD 404 |
| Source | ECHA |
| Evaluation | non-irritant |

| Serious eye damage/irritation | | | |
|-------------------------------|---|---------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | butanone | 78-93-3 | 201-159-0 |
| Species | rabbit | | |
| Method | OECD 405 | | |
| Source | ECHA | | |
| Evaluation | irritant | | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| Species | rabbit | | |
| Method | OECD 405 | | |
| Source | ECHA | | |
| Evaluation | irritant | | |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | - | 939-191-9 |
| Species | rabbit | | |
| Method | OECD 405 | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |

| Respiratory or skin sensitisation | | | |
|-----------------------------------|---|---------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | butanone | 78-93-3 | 201-159-0 |
| Route of exposure | Skin | | |
| Species | guinea pig | | |
| Method | OECD 406 | | |
| Source | ECHA | | |
| Evaluation | non-sensitizing | | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| Route of exposure | Skin | | |
| Species | mouse | | |
| Source | ECHA | | |
| Evaluation | non-sensitizing | | |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, | - | 939-191-9 |

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

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| bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | |
| Route of exposure | Skin |
| Species | mouse |
| Method | OECD 429 |
| Source | ECHA |
| Evaluation | sensitizing |

| Germ cell mutagenicity | | | |
|---------------------------|---|---|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | butanone | 78-93-3 | 201-159-0 |
| Type of examination | | in vitro gene mutation study in bacteria | |
| Species | | Salmonella typhimurium | |
| Method | | OECD 471 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| Type of examination | | In vitro Mammalian Chromosomal Aberration Test | |
| Species | | rat | |
| Method | | OECD 473 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| Type of examination | | In vitro mammalian cell gene mutation test | |
| Species | | Mouse lymphoma cells | |
| Method | | OECD 476 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| Type of examination | | In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus | |
| Species | | mouse | |
| Method | | OECD 474 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | - | 939-191-9 |
| Method | | OECD 471 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

| Reproduction toxicity | | | |
|---------------------------|-----------------|---|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | butanone | 78-93-3 | 201-159-0 |
| Route of exposure | | inhalational | |
| Type of examination | | Prenatal Developmental Toxicity Study | |
| Species | | rat | |
| Method | | OECD 414 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| Route of exposure | | oral | |

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

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| NOAEL | | | |
| Type of examination | 2 generation study | | |
| Species | mouse | | |
| Method | OECD 416 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| Route of exposure | | | |
| inhalational | | | |
| NOAEL | | | |
| Type of examination | Prenatal Developmental Toxicity Study | | |
| Species | rat | | |
| Method | OECD 414 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | | |
| Route of exposure | | | |
| oral | | | |
| NOAEL | | | |
| 5 mg/kg bw/d | | | |
| Species | rat | | |
| Method | OECD 422 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are met. | | |
| Carcinogenicity | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | butanone | 78-93-3 | 201-159-0 |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| STOT - single exposure | | | |
| No data available | | | |
| STOT - repeated exposure | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | butanone | 78-93-3 | 201-159-0 |
| Route of exposure | | inhalational | |
| Species | | rat | |
| Method | | OECD 413 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| Route of exposure | | oral | |
| Duration of exposure | | 14 week/s | |
| Species | | rat | |
| Target organ | | kidneys | |
| Method | | OECD 408 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | - | 939-191-9 |

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

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| and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | |
| Route of exposure | oral |
| NOAEL | 15 mg/kg bw/d |
| Species | rat |
| Target organ | whole body |
| Method | OECD 422 |
| Source | ECHA |
| Effects | May cause damage to organs through prolonged or repeated exposure |
| Evaluation/classification | Based on available data, the classification criteria are met. |
| Aspiration hazard | |
| No data available | |

11.2 Information on other hazards**Endocrine disrupting properties**

No data available.

Other information

No data available.

SECTION 12: Ecological information**12.1 Toxicity**

| Toxicity to fish (acute) | | | |
|------------------------------------|---|---------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | butanone | 78-93-3 | 201-159-0 |
| LC50 | | 2993 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Pimephales promelas | | |
| Method | OECD 203 | | |
| Source | ECHA | | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| LC50 | | 14200 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Pimephales promelas | | |
| Method | EPA | | |
| Source | ECHA | | |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | - | 939-191-9 |
| LC50 | | > | 100 mg/l |
| Duration of exposure | | 96 | h |
| Species | Danio rerio | | |
| Method | OECD 203 | | |
| Source | ECHA | | |
| Toxicity to fish (chronic) | | | |
| No data available | | | |
| Toxicity to Daphnia (acute) | | | |

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

| No | Substance name | CAS no. | EC no. |
|----------------------|--|---------|-----------|
| 1 | butanone | 78-93-3 | 201-159-0 |
| EC50 | | 308 | mg/l |
| Duration of exposure | | 48 | h |
| Species | Daphnia magna | | |
| Method | OECD 202 | | |
| Source | ECHA | | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| EC50 | | 5012 | mg/l |
| Duration of exposure | | 48 | h |
| Species | Ceriodaphnia dubia | | |
| Method | ASTM Standard E 729-80 | | |
| Source | ECHA | | |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | - | 939-191-9 |
| EC50 | | > | 100 |
| Duration of exposure | | 48 | h |
| Species | Daphnia magna | | |
| Method | OECD 202 | | |
| Source | ECHA | | |

Toxicity to Daphnia (chronic)

| No | Substance name | CAS no. | EC no. |
|----------------------|----------------|---------|-----------|
| 1 | ethanol | 64-17-5 | 200-578-6 |
| NOEC | | 9.6 | mg/l |
| Duration of exposure | | 9 | day(s) |
| Species | Daphnia magna | | |
| Source | ECHA | | |

Toxicity to algae (acute)

| No | Substance name | CAS no. | EC no. |
|----------------------|---------------------------------|---------|-----------|
| 1 | butanone | 78-93-3 | 201-159-0 |
| EC50 | | 2029 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Pseudokirchneriella subcapitata | | |
| Method | OECD 201 | | |
| Source | ECHA | | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| EC50 | | 275 | mg/l |
| Duration of exposure | | 72 | h |
| Species | Chlorella vulgaris | | |
| Method | OECD 201 | | |
| Source | ECHA | | |

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

| Biodegradability | | | |
|-------------------------|----------------|---------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | butanone | 78-93-3 | 201-159-0 |

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

| | | | |
|------------|---|----------------|------------------|
| Type | aerobic biodegradation | | |
| Value | 98 | % | |
| Duration | 28 | day(s) | |
| Method | OECD 301 D | | |
| Source | ECHA | | |
| Evaluation | readily biodegradable | | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| Type | aerobic biodegradation | | |
| Value | appr. 84 | % | |
| Duration | 20 | day(s) | |
| Method | OECD | | |
| Source | ECHA | | |
| Evaluation | readily biodegradable | | |
| Value | | % | |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | - | 939-191-9 |
| Value | 3 | % | |
| Duration | 28 | day(s) | |
| Method | OECD 301 B | | |
| Source | ECHA | | |
| Evaluation | not readily biodegradable | | |

12.3 Bioaccumulative potential

| Partition coefficient n-octanol/water (log value) | | | |
|---|---|----------------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | butanone | 78-93-3 | 201-159-0 |
| log Pow | | 0.3 | |
| Reference temperature | | 40 | °C |
| Method | OECD 117 | | |
| Source | ECHA | | |
| 2 | ethanol | 64-17-5 | 200-578-6 |
| log Pow | | -0.35 | |
| Reference temperature | | 24 | °C |
| with reference to | pH 7,4 | | |
| Method | OECD 107 | | |
| Source | ECHA | | |
| 3 | Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) | - | 939-191-9 |
| log Pow | 3.00 | - 3.80 | |
| Reference temperature | | 20 | °C |
| Method | OECD 105 | | |
| Source | ECHA | | |

12.4 Mobility in soil

No data available.

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

12.5 Results of PBT and vPvB assessment

| Results of PBT and vPvB assessment | |
|------------------------------------|--------------------|
| PBT assessment | No data available. |
| vPvB assessment | No data available. |

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

| Other information |
|--|
| Do not discharge product unmonitored into the environment. |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Used, completely emptied, packaging may be disposed of or passed to recovery systems in compliance with national and local provisions related to waste legislation. Like the unused product, the packaging that has not been emptied, may be disposed of or passed to recovery systems in compliance with national and local provisions related to waste legislation.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

| | |
|---------------------------|--------------|
| Class | 3 |
| Classification code | F1 |
| Packing group | II |
| Hazard identification no. | 33 |
| UN number | UN1210 |
| Proper shipping name | PRINTING INK |
| Special Provision 640 | 640C |
| Tunnel restriction code | D/E |
| Label | 3 |

14.2 Transport IMDG

| | |
|----------------------|--------------|
| Class | 3 |
| Packing group | II |
| UN number | UN1210 |
| Proper shipping name | PRINTING INK |
| EmS | F-E, S-D |
| Label | 3 |

14.3 Transport ICAO-TI / IATA

| | |
|----------------------|--------------|
| Class | 3 |
| Packing group | II |
| UN number | UN1210 |
| Proper shipping name | Printing ink |
| Label | 3 |

14.4 Other information

No data available.

14.5 Environmental hazards

Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

| | |
|--|----------|
| The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. | No 3, 40 |
|--|----------|

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

| | |
|--|-----|
| This product is subject to Part I of Annex I, risk category: | P5b |
|--|-----|

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H373 May cause damage to organs through prolonged or repeated exposure

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

C Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid

EU safety data sheet



Trade name: 70000-00106, ink, black

Current version : 1.0.0, issued: 11.03.2021

Replaced version: -, issued: -

Region: GB

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