

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 18.11.2009

Version: 2.2

Product: **ORASOL® Black RLI**

(30472135/SDS_GEN_EU/EN)

Date of print 19.11.2009

1. Identification of the substance/mixture and of the company/undertaking

ORASOL® Black RLI

Use: colouring component

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Pigments and Resins

Telephone: +49 621 60-45891

Telefax number: +49 621 60-40673

E-mail address: manfred.breth@basf.com

Emergency information:

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

According to REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Label elements and precautionary statement:

Pictogram:



Hazard Statement:

Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

Avoid release to the environment.

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Precautionary Statements (Response):

Collect spillage.

Precautionary Statements (Disposal):

Dispose of contents/container to hazardous or special waste collection point.

Classification of the substance and mixture:

Chronic hazards to the aquatic environment: Cat. 2

Possible Hazards (according to Directive 67/548/EWG or 1999/45/EC)

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/Information on Ingredients

Chemical nature

metal complex dye

CAS Number: 117527-94-3

EC-Number: 403-720-7

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

metal complex dye

Content (W/W): > 90 %

Eco chronic: Cat. 2

CAS Number: 117527-94-3

EC-Number: 403-720-7

2-naphthol

Content (W/W): < 2 %

Acute tox.: Cat. 4 (Inhalation - dust)

CAS Number: 135-19-3

Acute tox.: Cat. 4 (oral)

EC-Number: 205-182-7, 205-182-7

Eco acute: Cat. 1

INDEX-Number: 604-007-00-5

naphthalene

Content (W/W): < 1 %

Acute tox.: Cat. 4 (oral)

CAS Number: 91-20-3

Carc.: Cat. 2

EC-Number: 202-049-5

Eco acute: Cat. 1

INDEX-Number: 601-052-00-2

Eco chronic: Cat. 1

Hazardous ingredients

according to Directive 1999/45/EC

metal complex dye

Content (W/W): > 90 %
CAS Number: 117527-94-3
EC-Number: 403-720-7
Hazard symbol(s): N
R-phrase(s): 51/53

2-naphthol

Content (W/W): < 2 %
CAS Number: 135-19-3
EC-Number: 205-182-7
INDEX-Number: 604-007-00-5
Hazard symbol(s): Xn, N
R-phrase(s): 20/22, 50

naphthalene

Content (W/W): < 1 %
CAS Number: 91-20-3
EC-Number: 202-049-5
INDEX-Number: 601-052-00-2
Hazard symbol(s): Xn, N
R-phrase(s): 22, 40, 50/53

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:
dry extinguishing media, foam

Unsuitable extinguishing media for safety reasons:
carbon dioxide

Additional information:
Avoid whirling up the material/product because of the danger of dust explosion.

Specific hazards:
harmful vapours
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:
The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:
Avoid dust formation. Use personal protective clothing.

Environmental precautions:
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:
For small amounts: Pick up with suitable appliance and dispose of.
For large amounts: Contain with dust binding material and dispose of.
Avoid raising dust.

7. Handling and Storage

Handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:
Avoid dust formation. Take precautionary measures against static discharges.

█ Dust explosion class: Dust explosion class 2 (Kst-value 200 up to 300 bar m s-1).

Storage

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

8. Exposure Controls/Personal Protection

Components with workplace control parameters

91-20-3: naphthalene

135-19-3: 2-naphthol

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g.

temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Due to the colouring properties of the product closed work clothes should be used, to avoid stains during manipulation.

9. Physical and Chemical Properties

Form: powder
Colour: black
Odour: odourless

pH value: 6.5
(as suspension)

Melting point: > 250 °C (DIN EN ISO 3146)

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| | | |
|---|---|-----------------------------|
| Flash point: | not applicable | |
| Ignition temperature: | 360 °C | |
| Self ignition: | | Temperature: 210 °C |
| Explosion hazard: | not explosive | (Directive 92/69/EEC, A.14) |
| Vapour pressure: | 1.5 Pa (25 °C) | (OECD Guideline 104) |
| Density: | approx. 1.27 g/cm ³ (20 °C) | |
| Bulk density: | 340 - 420 kg/m ³ | |
| Solubility in water: | | (OECD Guideline 105) |
| Solubility (qualitative) solvent(s): | < 5 mg/l organic solvents soluble | |
| Partitioning coefficient n-octanol/water (log Pow): | 0 - 3.7 (20.5 °C) | (OECD Guideline 107) |

10. Stability and Reactivity

Conditions to avoid:
Avoid humidity.

Thermal decomposition: > 200 °C
Thermal decomposition above the indicated temperature is possible.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Hazardous reactions:
Dust explosion hazard.

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:
Virtually nontoxic after a single ingestion.

Experimental/calculated data:
LD50 rat (oral): > 5,000 mg/kg

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402)

Irritation

Experimental/calculated data:

| Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

| Serious eyes damages/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Experimental/calculated data:

| guinea pig: Non-sensitizing. (OECD Guideline 406)

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

| Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Toxicity to fish:

LC50 (96 h) 1 - 10 mg/l, Cyprinus carpio

Aquatic invertebrates:

EC0 (24 h) > 1,000 mg/l, Daphnia magna

Nominal concentration.

Aquatic plants:

EC50 (72 h) > 100 mg/l, Scenedesmus subspicatus (OECD Guideline 201)

| (based on loading rate)

Microorganisms/Effect on activated sludge:

EC50 (3 h) > 100 mg/l, activated sludge (DIN EN ISO 8192-OECD 209-88/302/EEC,P. C)

| (based on loading rate)

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The colourant is insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plant Colourants are by their nature very stable and are therefore not readily biodegradable under conditions prevailing in surface water or in effluent treatment plants.

Elimination information:

| (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Not readily biodegradable (by OECD criteria).

Other adverse effects

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

The product contains: 5.7 (W/W) % chromium

The heavy metals mentioned are present in complex bound form as substantial constituent of the colourant.

Additional information

Other ecotoxicological advice:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Do not discharge product into the environment without control.

13. Disposal Considerations

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Land transport

ADR

Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains C.I.SOLVENT BLACK 29)

RID

Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains C.I.SOLVENT BLACK 29)

Inland waterway transport

ADNR

Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
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Sea transport**IMDG**

Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains C.I.SOLVENT BLACK 29)

Air transport**IATA/ICAO**

Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains C.I.SOLVENT BLACK 29)

15. Regulatory Information**Regulations of the European union (Labelling) / National legislation/Regulations****EEC Directives:**

Hazard symbol(s)
N Dangerous for the environment.

R-phrase(s)
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Hazard determining component(s) for labelling: C.I. Solvent Black 29

Other regulations

16. Other Information

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Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

| | |
|-------|--|
| N | Dangerous for the environment. |
| Xn | Harmful. |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 20/22 | Harmful by inhalation and if swallowed. |
| 50 | Very toxic to aquatic organisms. |
| 22 | Harmful if swallowed. |
| 40 | Limited evidence of a carcinogenic effect. |
| 50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.