

Safety Data Sheet

according to Regulation (EC) No 1907/2006

REVERSACOL

Revision date: 15.07.2021

Product code: 00547-0075

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

1.1. Product identifier

REVERSACOL

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

Use of the substance/mixture

Photochromic dye

1.3. Details of the supplier of the safety data sheet

James Robinson Speciality Ingredients BV
Office 12.15 Millenium Tower
Radarweg 29/12B
1043 NX Amsterdam
Netherlands
+31 (0)20 854 6217

James Robinson Speciality Ingredients Ltd
P.O. Box B3
Leeds Road
Huddersfield HD1 6BU
United Kingdom
+44 (0) 1484 320500

Responsible Department:

Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone number:

INFOTRAC: (001) 352 323 3500

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

This substance is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Additional advice on labelling

The product does not require a hazard warning label in accordance with EC directives/the relevant national laws.

2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH), this product is regarded to be neither PBT nor vPvB.
Dust may form explosive mixture in air.

SECTION 3: Composition/information on ingredients

3.1. Substances

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 dust or fumes from overheating or combustion.
In the event of symptoms refer for medical treatment.

After contact with skin

Wash off immediately with soap and plenty of water.
In case of irritation consult a physician.

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After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.

After ingestion

Rinse out mouth and give plenty of water to drink.
Never give anything by mouth to an unconscious person.
Consult a physician.
Induce vomiting only upon the advice of a physician.

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

Product dust may be irritating to eyes, skin and respiratory system.

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 (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x)
Dust may form explosive mixture in air.

5.3. Advice for firefighters

Use breathing apparatus with independent air supply.
Protective suit.

Additional information

Cool containers at risk with water spray jet.
Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.
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 measures

Ensure adequate ventilation.
Remove all sources of ignition.
Dust may form explosive mixture in air.
Keep away noninvolved persons.

For non-emergency personnel

Do not breathe dust.
Avoid contact with skin, eyes and clothing.

For emergency responders

Respirator must be worn if exposed to dust.
Use personal protective clothing.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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For containment

No special measures required.

For cleaning up

Pick up mechanically, avoiding dust, and provide disposal in suitable recipients.

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.
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.
Do not breathe dust.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.
Dust may form explosive mixture in air.
Avoid formation of dust.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep containers tightly closed in a dry, well-ventilated place.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Photochromic dye

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

Obey TLV for common dust, if applicable.

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not breathe dust.
Wash hands before breaks and immediately after handling the product.
When using do not eat, drink or smoke.
Do not wear contact lenses when handling the product.
Remove and wash contaminated clothing before re-use.

Eye/face protection

Eye wash bottle with pure water (EN 15154).
Tightly fitting goggles (EN 166).

Hand protection

Protective gloves resistant to chemicals made of nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril Profi 729> made by www.kcl.de.

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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.

Skin protection

Long sleeved clothing (DIN EN ISO 6530)

Respiratory protection

Respirator must be worn if exposed to dust.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Powder
Colour: Various
Odour: Odourless

Test method

pH-Value: n.d.

Changes in the physical state

Melting point/freezing point: > 150 °C

Boiling point or initial boiling point and boiling range: n.d.

Sublimation point: n.a.

Softening point: n.d.

Flash point: n.a.

Flammability

EU-A.10

Solid/liquid: Not highly flammable

Gas: 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: n.d.

Gas: n.a.

Decomposition temperature: n.d.

Oxidizing properties

Not fire-promoting.

Vapour pressure: n.d.

Density: n.d.

Bulk density: n.d.

Water solubility: insoluble
(at 20 °C)

Solubility in other solvents

n.d.

Partition coefficient n-octanol/water: n.d.

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| | |
|--------------------------|------|
| Viscosity / dynamic: | n.a. |
| Viscosity / kinematic: | n.a. |
| Flow time: | n.a. |
| Relative vapour density: | n.d. |
| Evaporation rate: | n.d. |
| Solvent separation test: | 0 % |
| Solvent content: | 0 % |

9.2. Other information

| | |
|----------------|-------|
| Solid content: | 100 % |
|----------------|-------|

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

Dust may form explosive mixtures with air.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.
Avoid development of dust.

10.5. Incompatible materials

No materials to be especially mentioned.

10.6. Hazardous decomposition products

Fire may produce:
Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

LD50/oral/rat: > 2000 mg/kg (2004/73/EC, B.1) (*)

(*) Amber, Corn Yellow, Flame, Midnight Grey, Pacific Blue, Palatinate Purple, Plum Red, Ruby, Rush Yellow, Sunflower

LD50/dermal: No data available.

LC50/inhalation: No data available.

Irritation and corrosivity

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

Skin irritation: No data available.

Eye irritation: No data available.

Sensitising effects

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

No data available.

Carcinogenic/mutagenic/toxic effects for reproduction

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

Carcinogenicity: No data available

Mutagenicity: No data available

Reproductive toxicity: No data available

STOT-single exposure

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

No data available

STOT-repeated exposure

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

No data available

Aspiration hazard

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

No data available

11.2. Information on other hazards

Endocrine disrupting properties

No data available.

Other information

Product dust may be irritating to eyes, skin and respiratory system.

Further information

Our dates do not cover total texture toxic judgement. Follow the usual hygienic directives for handling with chemicals.

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available.

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), this product is regarded to be neither PBT nor vPvB.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

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

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070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors; hazardous waste

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

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. Maritime transport in bulk according to IMO instruments

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

2004/42/EC (VOC): 0 %
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

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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): 2,6,7,10,11,12,13.

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

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)