

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Dragendorff's reagent R 2 (stock solution) Reag. Ph. Eur., chapter 4.1.1

Revision date: 26.06.2023

Product code: 27533

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

1.1. Product identifier

Dragendorff's reagent R 2 (stock solution) Reag. Ph. Eur., chapter 4.1.1

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

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|----------------------------------|------------------------------|
| Company name: | AnalytiChem GmbH | |
| Street: | Stempelstraße 6 | |
| Place: | D-47167 Duisburg | |
| Telephone: | 0203/5194-0 | Telefax: 0203/5194-290 |
| E-mail: | info@analytichem.de | |
| Contact person: | Abteilung Produktsicherheit | Telephone: 0203/5194-107/117 |
| E-mail: | produktsicherheit@analytichem.de | |
| Internet: | www.analytichem.de | |
| Responsible Department: | Abteilung Produktsicherheit | |

1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

Further Information

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Eye Dam. 1; H318
STOT RE 1; H372

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

(+)-tartaric acid
potassium iodide

Signal word: Danger

Pictograms:



Hazard statements

H318 Causes serious eye damage.
H372 Causes damage to organs (thyroid gland) through prolonged or repeated exposure if swallowed.

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Precautionary statements

- P260 Do not breathe mist/vapours/spray.
 P270 Do not eat, drink or smoke when using this product.
 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.
 P310 Immediately call a POISON CENTER/doctor.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Hazardous components

| CAS No | Chemical name | | | Quantity |
|-----------|-------------------------------------------------------------------------|----------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 87-69-4 | (+)-tartaric acid | | | 15 - < 20 % |
| | 201-766-0 | | 01-2119537204-47 | |
| | Eye Dam. 1; H318 | | | |
| 7681-11-0 | potassium iodide | | | 10 - < 15 % |
| | 231-659-4 | | 01-2119906339-35 | |
| | STOT RE 1; H372 | | | |
| 1304-85-4 | bismuth subnitrate | | | 1 - < 5 % |
| | Ox. Sol. 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H272 H315 H319 H335 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-----------|----------------------------------------------------------------------------|--------------------|-------------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 87-69-4 | 201-766-0 | (+)-tartaric acid | 15 - < 20 % |
| | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg | | |
| 7681-11-0 | 231-659-4 | potassium iodide | 10 - < 15 % |
| | oral: LD50 = 3118 mg/kg | | |
| 1304-85-4 | | bismuth subnitrate | 1 - < 5 % |
| | inhalation: LC50 = > 5,07 mg/l (dusts or mists); oral: LD50 = > 2000 mg/kg | | |

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

- Provide fresh air.
 Call a doctor if you feel unwell.

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After contact with skin

Wash immediately with: Water
Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.
Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water.
Call a physician immediately.

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

Irritant
Agitation
Vomiting
May cause sensitisation especially in sensitive humans.

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

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids
Hazardous combustion products
In case of fire may be liberated:
Hydrogen iodide (HI)

5.3. Advice for firefighters

Do not inhale explosion and combustion gases.
Avoid contact with skin, eyes and clothes.
In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Move undamaged containers from immediate hazard area if it can be done safely.
Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation.
Use personal protection equipment.
Avoid contact with skin, eyes and clothes.
Remove persons to safety.
Emergency procedures
Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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6.3. Methods and material for containment and cleaning up

For containment

- Cover drains.
- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Collect in closed and suitable containers for disposal.
- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

- Clean contaminated articles and floor according to the environmental legislation.

Other information

- Provide adequate ventilation.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

- Handle and open container with care.
- Provide adequate ventilation.
- Avoid contact with skin, eyes and clothes.
- Do not breathe vapour/aerosol.
- Avoid: aerosol or mist formation

Advice on protection against fire and explosion

- Usual measures for fire prevention.

Advice on general occupational hygiene

- Take off contaminated clothing.
- Wash hands before breaks and after work.
- When using do not eat or drink.

Further information on handling

- Take off contaminated clothing and wash it before reuse.
- Wash hands before breaks and after work.
- Draw up and observe skin protection programme.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

- Store in a well-ventilated place. Keep container tightly closed.
- Keep container dry.

Further information on storage conditions

- Protect against: Light

7.3. Specific end use(s)

- Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL values

| CAS No | Substance | | |
|--------------------------|--------------------|----------|------------------------|
| DNEL type | Exposure route | Effect | Value |
| 87-69-4 | (+)-tartaric acid | | |
| Worker DNEL, long-term | inhalation | systemic | 5,2 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 2,9 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 1,3 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 1,5 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 8,1 mg/kg bw/day |
| 1304-85-4 | bismuth subnitrate | | |
| Worker DNEL, long-term | inhalation | systemic | 2,7 mg/m ³ |
| Consumer DNEL, long-term | inhalation | systemic | 0,67 mg/m ³ |
| Consumer DNEL, long-term | oral | systemic | 5 mg/kg bw/day |

PNEC values

| CAS No | Substance | |
|--------------------------------------------------|--------------------|--|
| Environmental compartment | Value | |
| 87-69-4 | (+)-tartaric acid | |
| Freshwater | 0,312 mg/l | |
| Freshwater (intermittent releases) | 0,514 mg/l | |
| Marine water | 0,312 mg/l | |
| Freshwater sediment | 1,141 mg/kg | |
| Marine sediment | 1,141 mg/kg | |
| Micro-organisms in sewage treatment plants (STP) | 10 mg/l | |
| Soil | 0,045 mg/kg | |
| 1304-85-4 | bismuth subnitrate | |
| Freshwater | 0,137 mg/l | |
| Freshwater (intermittent releases) | 1,37 mg/l | |
| Marine water | 0,014 mg/l | |
| Freshwater sediment | 14176,5 mg/kg | |
| Marine sediment | 1417,7 mg/kg | |
| Secondary poisoning | 33,3 mg/kg | |
| Micro-organisms in sewage treatment plants (STP) | 17,5 mg/l | |
| Soil | 120,3 mg/kg | |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

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By long-term hand contact
Trade name/designation KCL 741 Dermatril® L
Recommended material: NBR (Nitrile rubber) 0,11 mm
Wearing time with permanent contact: > 480 min

By short-term hand contact
Trade name/designation KCL 741 Dermatril® L
Recommended material: NBR (Nitrile rubber) 0,11 mm
Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet (>, <) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing.
Take off immediately all contaminated clothing.
Wash hands before breaks and after work.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|-----------------------------------------------------------|-------------------|----------------------------------|
| Physical state: | Liquid | |
| Colour: | clear | |
| Odour: | odourless | |
| Odour threshold: | No data available | |
| Melting point/freezing point: | | No data available |
| Boiling point or initial boiling point and boiling range: | | No data available |
| Flammability: | | not determined not applicable |
| Lower explosion limits: | | not determined |
| Upper explosion limits: | | not determined |
| Flash point: | | not applicable |
| Auto-ignition temperature: | | No data available |
| Decomposition temperature: | | No data available |
| pH-Value: | | No data available |
| Viscosity / kinematic: | | No data available |
| Water solubility: | | No data available |
| Solubility in other solvents | | |
| No data available | | |
| Dissolution rate: | | No data available |
| Partition coefficient n-octanol/water: | | not determined |
| Dispersion stability: | | No data available |
| Vapour pressure: | | No data available |
| Vapour pressure: | | No data available |
| Density: | | 1,226 g/cm ³ |
| Relative density: | | No data available |

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| | |
|---------------------------|-------------------|
| Bulk density: | No data available |
| Relative vapour density: | not determined |
| Particle characteristics: | No data available |

9.2. Other information

Information with regard to physical hazard classes

| | |
|---------------------------|-------------------|
| Explosive properties | No data available |
| Sustaining combustion: | No data available |
| Self-ignition temperature | |
| Solid: | not determined |
| Gas: | not applicable |
| Oxidizing properties | |
| No data available | |

Other safety characteristics

| | |
|--------------------------|-------------------|
| Evaporation rate: | not determined |
| Solvent separation test: | No data available |
| Solvent content: | No data available |
| Solid content: | No data available |
| Sublimation point: | No data available |
| Softening point: | No data available |
| Pour point: | No data available |
| Viscosity / dynamic: | No data available |
| Flow time: | No data available |

Further Information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Protect against: Light

10.3. Possibility of hazardous reactions

Alkali metals
Ammonia (NH₃)
Hydrogen peroxide
Oxidising agent
Fluorine

10.4. Conditions to avoid

Light

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In case of fire may be liberated:
SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

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

Toxicokinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

ATEmix calculated

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

| CAS No | Chemical name | | | | |
|-----------|----------------------------|-------------------|---------|---------------------|----------------------|
| | Exposure route | Dose | Species | Source | Method |
| 87-69-4 | (+)-tartaric acid | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | N/A (2010) | data sharing dispute |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (2010) | OECD Guideline 402 |
| 7681-11-0 | potassium iodide | | | | |
| | oral | LD50 3118 mg/kg | Rat | Study report (1980) | OECD Guideline 401 |
| 1304-85-4 | bismuth subnitrate | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | Study report (2012) | EU Method B.1 tris |
| | inhalation (4 h) dust/mist | LC50 > 5,07 mg/l | Rat | Study report (2010) | OECD Guideline 436 |

Irritation and corrosivity

Causes serious eye damage.

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

Sensitising effects

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

May cause sensitisation especially in sensitive humans.

Carcinogenic/mutagenic/toxic effects for reproduction

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

Causes damage to organs through prolonged or repeated exposure. (potassium iodide)

Aspiration hazard

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

Information on likely routes of exposure

There are no data available on the mixture itself.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

There are no data available on the mixture itself.

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Other information

There are no data available on the mixture itself.

Further information

Irritant
Agitation
Vomiting
May cause sensitisation especially in sensitive humans.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

| CAS No | Chemical name | | | | | |
|-----------|--------------------------|--------------------|-----------|----------------------------------------------------|----------------------------|----------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 87-69-4 | (+)-tartaric acid | | | | | |
| | Acute fish toxicity | LC50 > 100 mg/l | 96 h | Danio rerio | Study report (2010) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 51,404 mg/l | 72 h | Pseudokirchneriella subcapitata | Study report (2010) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 93,313 mg/l | 48 h | Daphnia magna | Study report (2010) | OECD Guideline 202 |
| | Acute bacteria toxicity | (EC50 > 1000 mg/l) | 3 h | Nature of inoculum: activated sludge, domestic, no | Study report (2010) | OECD Guideline 209 |
| 7681-11-0 | potassium iodide | | | | | |
| | Acute fish toxicity | LC50 3780 mg/l | 96 h | Oncorhynchus mykiss | Publication (1995) | other: Protocol to d |
| | Acute crustacea toxicity | EC50 1,27 mg/l | 48 h | Daphnia magna | Study report (2012) | OECD Guideline 202 |
| 1304-85-4 | bismuth subnitrate | | | | | |
| | Acute fish toxicity | LC50 > 137 mg/l | 96 h | Danio rerio | REACH Registration Dossier | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 > 137 mg/l | 72 h | Pseudokirchneriella subcapitata | REACH Registration Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 > 137 mg/l | 48 h | Daphnia magna | REACH Registration Dossier | OECD Guideline 202 |

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|-------------------|---------|
| 87-69-4 | (+)-tartaric acid | 0,012 |

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
There are no data available on the mixture itself.

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12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
There are no data available on the mixture itself.

12.7. Other adverse effects

There are no data available on the mixture itself.

Further information

Avoid release to the environment.
Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|------------------------------------------|----------------------------------------------------------|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Inland waterways transport (ADN)

| | |
|------------------------------------------|----------------------------------------------------------|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Marine transport (IMDG)

| | |
|------------------------------------------|----------------------------------------------------------|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Air transport (ICAO-TI/IATA-DGR)

| | |
|------------------------------------------|----------------------------------------------------------|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

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 juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

3 - highly hazardous to water

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Ox. Sol: Oxidising solid

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

STOT SE: Specific target organ toxicity - single exposure

STOT RE: Specific target organ toxicity - repeated exposure

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|------------------|--------------------------|
| Eye Dam. 1; H318 | Calculation method |
| STOT RE 1; H372 | Calculation method |

Relevant H and EUH statements (number and full text)

- H272 May intensify fire; oxidiser.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H372 Causes damage to organs (thyroid gland) through prolonged or repeated exposure if swallowed.
- H372 Causes damage to organs through prolonged or repeated exposure.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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