acc. to Regulation (EC) No. 1907/2006 (REACH)

Single-Element IC - Standard Solution ROTI®Star 1 000 mg/l S₂O₃²⁻

article number: **8207** Version: **2.0 en** Replaces version of: 2016-06-10 Version: (1)

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

1.1 Product identifier

Identification of the substance

Article number

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment sheet:

e-mail (competent person):

sicherheit@carlroth.de

1.4 Emergency telephone number

| Name | Street | Postal code/city | Telephone | Website |
|--|-----------|----------------------|--------------|---------|
| National Poisons Information Service City Hospital | Dudley Rd | B187QH Birmingham | 844 892 0111 | |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

This mixture does not meet the criteria for classification.

2.2 Label elements

Labelling

not required

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2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 **Substances**

not relevant (mixture)

3.2 **Mixtures**

Description of the mixture

| Name of sub- stance | Identifier | Wt% | Classification acc. to GHS | Pictograms | Notes |
|------------------------|--|-----|---|------------|-------------------------|
| Isoamyl alcohol | CAS No 123-51-3 EC No 204-633-5 Index No 603-006-00-7 | 0,1 | Flam. Liq. 3 / H226 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335 EUH066 | | C(a) GHS-HC IOELV |

Notes

C(a): Mixture of isomers
GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/ 2008/EC, Annex VI)
IOELV: Substance with a community indicative occupational exposure limit value

| Name of sub- stance | Identifier | Specific Conc. Limits | M-Factors | ΑΤΕ | Exposure route |
|------------------------|--------------------|-----------------------|------------------|-------------------------------------|-------------------------|
| Isoamyl alcohol | CAS No 123-51-3 | - | - | 11 ^{mg} / _l /4h | inhalation: va- pour |
| | EC No 204-633-5 | | | | |

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 **Description of first aid measures**



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air.

Following skin contact

Rinse skin with water/shower.

Following eye contact

Rinse cautiously with water for several minutes.

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Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

- **4.2 Most important symptoms and effects, both acute and delayed** Symptoms and effects are not known to date.
- **4.3 Indication of any immediate medical attention and special treatment needed** none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Non-combustible.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

No special measures are necessary.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece).

Other information relating to spills and releases

Place in appropriate containers for disposal.



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6.4 **Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 **Precautions for safe handling**

No special measures are necessary.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Cou ntr y | Name of agent | CAS No | Identi- fier | TW A [pp m] | TWA [mg/ m³] | STE L [pp m] | STEL [mg/ m³] | Ceil ing- C [pp m] | Ceil- ing-C [mg/ m³] | Nota- tion | Source |
|-----------------|--------------------|----------|-----------------|----------------------|--------------------|-----------------------|---------------------|--------------------------------|-------------------------------|---------------|------------------|
| EU | isoamylalcohol | 123-51-3 | IOELV | 5 | 18 | 10 | 37 | | | | 2019/ 1831/EU |
| GB | 3-methylbutan-1-ol | 123-51-3 | WEL | 100 | 366 | 125 | 458 | | | | EH40/ 2005 |

Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-STEL TWA

minute period (unless otherwise specified) Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

| Relevant DNELs of components of the mixture | | | | | | |
|---|----------|---------------|-----------------------------|--|-------------------|------------------------------|
| Name of sub- stance | CAS No | End- point | Threshol d level | Protection goal, route of exposure | Used in | Exposure time |
| Isoamyl alcohol | 123-51-3 | DNEL | 73,16 mg/ m ³ | human, inhalat- ory | worker (industry) | chronic - local ef- fects |
| Isoamyl alcohol | 123-51-3 | DNEL | 292 mg/m ³ | human, inhalat- ory | worker (industry) | acute - local ef- fects |

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| Relevant PNECs | Relevant PNECs of components of the mixture | | | | | |
|------------------------|---|---------------|--|----------------------------|---------------------------------|---------------------------------|
| Name of sub- stance | CAS No | End- point | Threshol d level | Organism | Environmental compartment | Exposure time |
| Isoamyl alcohol | 123-51-3 | PNEC | 0,12 ^{mg} / _l | aquatic organ- isms | freshwater | short-term (single instance) |
| Isoamyl alcohol | 123-51-3 | PNEC | 0,012 ^{mg} / _l | aquatic organ- isms | marine water | short-term (single instance) |
| Isoamyl alcohol | 123-51-3 | PNEC | 37 ^{mg} / _l | aquatic organ- isms | sewage treatment plant (STP) | short-term (single instance) |
| Isoamyl alcohol | 123-51-3 | PNEC | 0,496 ^{mg} / ^{kg} | aquatic organ- isms | freshwater sedi- ment | short-term (single instance) |
| Isoamyl alcohol | 123-51-3 | PNEC | 0,05 ^{mg} / _{kg} | aquatic organ- isms | marine sediment | short-term (single instance) |
| Isoamyl alcohol | 123-51-3 | PNEC | 0,029 ^{mg} / kg | terrestrial organ- isms | soil | short-term (single instance) |

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



hand protection

Hand protection is not required.

Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation.

Environmental exposure controls

Keep away from drains, surface and ground water.

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SECTION 9: Physical and chemical properties

| 9.1 | Information on basic physical and chemical pro | operties |
|-----|--|--|
| | Physical state | liquid |
| | Colour | colourless |
| | Odour | odourless |
| | Melting point/freezing point | 0 °C |
| | Boiling point or initial boiling point and boiling range | 100 °C at 1.013 hPa |
| | Flammability | non-combustible |
| | Lower and upper explosion limit | not determined |
| | Flash point | not determined |
| | Auto-ignition temperature | not determined |
| | Decomposition temperature | not relevant |
| | pH (value) | not determined |
| | Kinematic viscosity | not determined |
| | Solubility(ies) | |
| | Water solubility | miscible in any proportion |
| | water solubility | |
| | Partition coefficient | |
| | Partition coefficient n-octanol/water (log value): | not relevant (inorganic) |
| | | |
| | Vapour pressure | 23 hPa at 20 °C |
| | Density and/or relative density | |
| | Density | ~ 1 ^g / _{cm³} |
| | Relative vapour density | information on this property is not available |
| | | |
| | Particle characteristics | not relevant (liquid) |
| | Other safety parameters | |
| | Oxidising properties | none |
| 9.2 | Other information | |
| | Information with regard to physical hazard classes: | hazard classes acc. to GHS (physical hazards): not relevant |
| | Other safety characteristics: | |
| | Miscibility | completely miscible with water |
| | | |



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SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

This mixture does not meet the criteria for classification.

Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity estimate (ATE) of components of the mixture | | | | | |
|--|----------|--------------------|------------------------|--|--|
| Name of substance | CAS No | Exposure route | ATE | | |
| Isoamyl alcohol | 123-51-3 | inhalation: vapour | 11 ^{mg} /ı/4h | | |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.



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Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

Data are not available.

• If in eyes

Data are not available.

If inhaled

essentially non-irritating

• If on skin

Data are not available.

Other information

none

11.2 Endocrine disrupting properties None of the ingredients are listed.

11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Biodegradation

The methods for determining the biological degradability are not applicable to inorganic substances.

12.2 Process of degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components of the mixture | | | | | | |
|--|----------|-----|-----------------------|----------|--|--|
| Name of substance | CAS No | BCF | Log KOW | BOD5/COD | | |
| Isoamyl alcohol | 123-51-3 | | 1,35 (pH value: ~6,5) | | | |

12.4 Mobility in soil

Data are not available.



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- **12.5 Results of PBT and vPvB assessment** Data are not available.
- **12.6 Endocrine disrupting properties** None of the ingredients are listed.
- **12.7 Other adverse effects** Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

Sewage disposal-relevant information

Do not empty into drains.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards

not subject to transport regulations

not assigned

none

not assigned

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

- **14.7** Maritime transport in bulk according to IMO instruments The cargo is not intended to be carried in bulk.
- 14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information Not subject to ICAO-IATA.



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SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

| 2012/18/EU (Seveso III) | | | | | | | |
|-------------------------|---------------------------------------|---|-------|--|--|--|--|
| Νο | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements | Notes | | | | |
| | not assigned | | | | | | |

Deco-Paint Directive

| VOC content | 0,1 % |
|-------------|-------|
|-------------|-------|

Industrial Emissions Directive (IED)

| VOC content | |
|-------------|--|
|-------------|--|

0,1 %

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National regulations(GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list none of the ingredients are listed

Restrictions according to GB REACH, Annex 17

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| angerous substances with restrictions (GB REACH, Annex 17) | | | |
|--|--|--------|----|
| Name of substance | Name acc. to inventory | CAS No | Νο |
| Isoamyl alcohol | this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC | | 3 |
| Isoamyl alcohol | flammable / pyrophoric | | 40 |

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

| Country | Inventory | Status |
|---------|------------|--------------------------------|
| AU | AIIC | all ingredients are listed |
| CA | DSL | all ingredients are listed |
| CN | IECSC | all ingredients are listed |
| EU | ECSI | all ingredients are listed |
| EU | REACH Reg. | all ingredients are listed |
| JP | CSCL-ENCS | all ingredients are listed |
| KR | KECI | all ingredients are listed |
| MX | INSQ | all ingredients are listed |
| NZ | NZIoC | all ingredients are listed |
| PH | PICCS | all ingredients are listed |
| TR | CICR | not all ingredients are listed |
| TW | TCSI | all ingredients are listed |
| US | TSCA | all ingredients are listed |

Legend

| AIIC | Australian Inventory of Industrial Chemicals |
|------------|---|
| CICR | Chemical Inventory and Control Regulation |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| KECI | Korea Existing Chemicals Inventory |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| TSCA | Toxic Substance Control Act |

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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SECTION 16: Other information

Indication of changes (revised safety data sheet)

Alignment to regulation: Restructuring: section 9, section 14

| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relev- ant |
|---------|---|---|--------------------------|
| 2.1 | Classification according to Regulation (EC) No 1272/2008 (CLP): This mixture does not meet the criteria for clas- sification in accordance with Regulation No 1272/2008/EC. | Classification acc. to GHS: This mixture does not meet the criteria for clas- sification. | yes |
| 2.2 | Signal word: not required | | yes |
| 2.3 | Other hazards: There is no additional information. | Other hazards | yes |
| 2.3 | | Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB. | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations | |
|--------------|---|--|
| 2019/1831/EU | Commission Directive establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC | |
| Acute Tox. | Acute toxicity | |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways) | |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road) | |
| ATE | Acute Toxicity Estimate | |
| BCF | Bioconcentration factor | |
| BOD | Biochemical Oxygen Demand | |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) | |
| Ceiling-C | Ceiling value | |
| COD | Chemical oxygen demand | |
| DGR | Dangerous Goods Regulations (see IATA/DGR) | |
| DNEL | Derived No-Effect Level | |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union) | |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/) | |
| EINECS | European Inventory of Existing Commercial Chemical Substances | |
| ELINCS | European List of Notified Chemical Substances | |
| Eye Dam. | Seriously damaging to the eye | |

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| Abbr. | Descriptions of used abbreviations | |
|-------------|--|--|
| Eye Irrit. | Irritant to the eye | |
| Flam. Liq. | Flammable liquid | |
| GB REACH | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended) | |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions | |
| IATA | International Air Transport Association | |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) | |
| ICAO | International Civil Aviation Organization | |
| IMDG | International Maritime Dangerous Goods Code | |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 | |
| IOELV | Indicative occupational exposure limit value | |
| log KOW | n-Octanol/water | |
| NLP | No-Longer Polymer | |
| РВТ | Persistent, Bioaccumulative and Toxic | |
| PNEC | Predicted No-Effect Concentration | |
| ppm | Parts per million | |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals | |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail) | |
| Skin Corr. | Corrosive to skin | |
| Skin Irrit. | Irritant to skin | |
| STEL | Short-term exposure limit | |
| STOT SE | Specific target organ toxicity - single exposure | |
| TWA | Time-weighted average | |
| VOC | Volatile Organic Compounds | |
| vPvB | Very Persistent and very Bioaccumulative | |
| WEL | Workplace exposure limit | |

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).



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List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|-----------------------------------|
| H226 | Flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.