# Section 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifier

| | |
|---|---|
| Product name / designation | Humidity standard 11.3 %rh |
| Product number | EA11-SCS |
| Brand | ROTRONIC |
| UFI code | JHUE-HOVK-700D-GQFF |

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

| | |
|---|---|
| Areas of use [SU] | SU9 Production of fine chemicals |
| Product categories [PC] | PC21 Laboratory chemicals |
| Application of the substance / mixture | Only suitable for calibrating humidity meters<br>For professional users only |

## 1.3 Details of the supplier of the safety data sheet

| | | |
|---|---|---|
| Company | ROTRONIC AG<br>Grindelstrasse 6<br>CH-8303 Bassersdorf | Process Sensing Technologies PST GmbH<br>Max-Planck-Str.14<br>D-61381 Friedrichsdorf |
| Telephone | +41 44 838 11 11 | +49 7243 6019000 |
| Email address | measure@rotronic.ch | de.rotronic.sales@processsensing.com |
| Website | www.ProcessSensing.com | |
| Providing information | +41 44 838 11 11<br>(This number is only manned during office hours) | |
| e-mail<br>(competent person) | pm@rotronic.ch | |

## 1.4 Emergency number

| | | |
|---|---|---|
| Switzerland / Germany | Tox Info Suisse (CH)<br>+41 44 251 51 51 (145) | Poison Center D-Munich (DE)<br>+49 89 192 40 |
| United Kingdom / Ireland | Poisons Information Centre, London (UK)<br>+44 845 46 47 (111) | National Poisons Information Centre (NPIC), Dublin (IE)<br>+353 1 809 2166 |
| United States | New York City Poison Control Center<br>1-800-222-1222 | |

# Section 2: Possible dangers

## 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

| | |
|---|---|
| Acute toxicity, Category 4, Ingestion; H302 | Calculation method |
| Irritant effect on the skin, Category 2; H315 | Calculation method |
| Eye irritation, Category 2; H319 | Calculation method |
| Skin sensitisation, Category 1; H317 | Calculation method |

**Hazard warnings for health hazards**

H302: Harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.

**Hazard warnings for environmental hazards**

Not hazardous to water (nwg)

**Remark**
The classification corresponds to the current EC lists, but is supplemented by information from specialised literature and company data.

## 2.2 Labelling elements

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

| | | |
|---|---|---|
| Pictogram |  GHS07 | |
| Signal word | Warning | |
| Hazard warnings | H302 | Harmful if swallowed. |
| | H315 | Causes skin irritation. |
| | H317 | May cause allergic skin reactions. |
| | H319 | Causes serious eye irritation. |
| Safety instructions | P264 | Wash skin thoroughly after use. |
| | P280 | Wear protective gloves/eye protection |
| | P301<br>P312 | IF SWALLOWED:<br>Call a POISON CENTRE/doctor if you feel unwell. |
| | P302 P352 | IF ON SKIN: Wash with plenty of water. |
| | P305<br>P351<br>P338 | ON CONTACT WITH THE EYES:<br>Rinse gently with water for a few minutes.<br>Remove any contact lenses if possible.<br>Continue rinsing. |
| | P501 | Dispose of contents/container to a recognized waste disposal facility. |

## 2.3 Other dangers

No data available

## Section 3: Composition/information on ingredients

### 3.1 Fabrics

Not applicable

### 3.2 Mixtures

**Hazardous ingredients**

| CAS No. | EC no. | REACH | Substance name | Concentration | Classification according to Regulation (EC) No 1272/2008 [CLP] | SCL/ M/ ATE |
|---|---|---|---|---|---|---|
| 7550-35-8 | 231-439-8 | #1 | Lithium bromide | 54 - 61 wt-% | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2 ; H319 Skin Sens. 1; H317 | ATE(Oral): 500 mg/kg |

#1
A registration number for this substance is not available because the substance or its use is exempted from registration, the annual tonnage does not require registration or registration is foreseen for a later date.

## Section 4: First aid measures

### 4.1 Description of first aid measures

**General information**
Remove soiled, soaked clothing immediately.

**After inhalation**
Provide fresh air.
Seek medical treatment in case of complaints.
If there is a risk of unconsciousness, position and transport in the recovery position.

**After skin contact**
In case of contact with skin, wash off immediately with plenty of soap and water.

**After eye contact**
In case of eye contact, rinse the eyes with water for a sufficient period of time with the eyelids open, then consult an ophthalmologist immediately.

**After ingestion**
DO NOT induce vomiting.
If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water.
Drink plenty of water in small sips (dilution effect).

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

No data available.

### 4.3 Information on immediate medical assistance or specialised treatment

No data available.

## Section 5: Firefighting measures

### 5.1 Extinguishing agent

**Suitable extinguishing agents**
Alcohol-resistant foam
Product itself does not burn; adapt extinguishing measures to surrounding fire.
Extinguishing powder
Carbon dioxide (CO2)
Water spray jet

**Unsuitable extinguishing agents**
Full water jet

### 5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products**
Formation of hazardous gases possible in case of fire.
Can be released in case of fire:
Carbon monoxide Carbon dioxide (CO2)

### 5.3 Instructions for firefighting

**Special protective equipment for firefighting**
In case of fire: Wear self-contained breathing apparatus.

**Additional information**
The product itself does not burn.
Adapt extinguishing measures to the surroundings.
Use a water spray jet to protect persons and to cool containers in the danger zone.

## Section 6: Measures in the event of accidental release

### 6.1 Personal precautions, protective equipment and emergency procedures

**Staff not trained for emergencies**
Avoid contact with eyes and skin.
Ensure adequate ventilation. Use personal protective equipment.

### 6.2 Environmental protection measures
Do not allow to enter drains or waterways.
In the event of spillage into watercourses or sewers, inform the responsible authorities.

### 6.3 Methods and material for retention and cleaning

**For retention**
Ensure adequate ventilation.
Absorb residues with liquid-binding material (e.g. acid binder). Dispose of in suitable containers for recovery or disposal.

### 6.4 Reference to other sections
Safe handling: see section 7
Personal protective equipment: see section 8
Disposal: see section 13

## Section 7: Handling and storage

### 7.1 Protective measures for safe handling

**Protective measures**
Avoid contact with eyes and skin.
The usual precautionary measures for handling chemicals must be observed.
The product is not: Flammable
Keep the packaging dry and well sealed to avoid contamination and absorption of moisture.
Store container in a cool, well-ventilated place.
Avoidance of: Eye contact Skin contact

**Notes on general industrial hygiene**
Do not eat, drink, smoke or snuff at the workplace.
Keep away from food and drink.
Wash hands before breaks and at the end of work.

### 7.2 Conditions for safe storage, taking into account incompatibilities

**Requirements for storage rooms and containers**
Keep/store only in the original container.
Keep container tightly closed. Suitable material for containers/systems:
Material, acid-resistant
Provide a retention tank, e.g. floor pan without drain.

**Storage class**
8B Non-flammable corrosive hazardous substances

**Substances to avoid**
Do not store together with: Food and animal feed

**Further information on storage conditions**
Keep container tightly closed and store in a cool, well-ventilated place. Protect from heat and direct sunlight.

### 7.3 Specific end uses
No data available

## Section 8: Exposure controls/personal protective equipment

### 8.1 Parameters to be monitored
No data available

### 8.2 Exposure controls and monitoring
**Suitable technical control equipment**

**Technical measures to prevent exposure**
Avoid contact with eyes and skin.
Ensure good room ventilation and, if necessary, extraction at the workplace.

**Personal protective equipment**
**Eye/face protection**
Safety goggles EN 166

**Hand protection**
Information on glove material [type, thickness, penetration time/wear time, wetting strength]: Nitrile rubber, butyl rubber; 0.5 mm; approx. 480 min.
Permeation level: 6
Penetration level according to EN374:3
Observe the glove manufacturer's instructions on permeability and breakthrough times and the special conditions at the workplace.

**Body protection**
Normal work clothes

**Respiratory protection**
No respiratory protection required

**Additional notes**
No occupational exposure limits (OEL) have been defined for the product.

## Section 9: Physical and chemical properties

### 9.1 Information on the basic physical and chemical properties

| | |
| --- | --- |
| a) Aggregate state | Liquid |
| b) Colour | Clear, colourless |
| c) Odour | Characteristic |
| d) Melting point/freezing point | Not determined |
| e) Boiling point | Not determined |
| f) Flammability | Not determined |
| g) Lower and upper explosion limit | Not determined |
| h) Flash point | Not determined |
| i) Ignition temperature | Not determined |
| j) Decomposition temperature | Not determined |
| k) pH value | 9 |
| l) Kinematic viscosity | Not determined |
| m) Solubility | Completely soluble |
| n) Partition coefficient: n-octanol/water | Not determined |
| o) Vapour pressure | Not determined |

| | |
|---|---|
| p) Density | Not determined |
| q) Relative vapour density | Not determined |
| r) Particle properties | Not determined |

### 9.2 Other information
**Other safety-related parameters**

Explosive properties: The product is not explosive.

## Section 10: Stability and reactivity
### 10.1 Reactivity
Reactions with strong oxidising agents.
Reactions with alkalis (lyes).

### 10.2 Chemical stability
No data available

### 10.3 Possibility of hazardous reactions
No data available

### 10.4 Conditions to avoid
Accidental opening of the ampoules or glass breakage.

### 10.5 Incompatible materials
No data available

### 10.6 Hazardous decomposition products
No known hazardous decomposition products.
No decomposition when used as intended.

## Section 11: Toxicological information
### 11.1 Information on hazard classes according to Regulation (EC) No 1272/2008
**Acute toxicity**

**Animal data**

| | Active dose | Method, evaluation | Source, remark |
|---|---|---|---|
| Acute oral toxicity | CAS No.7550-35-8 Lithium bromide<br>LD50: 500 mg/kg | | |
| Acute dermal toxicity | not determined | | |
| Acute inhalation toxicity | not determined | | |

**Corrosive/irritant effect on the skin**

**Animal data**

| Result / Evaluation | Method | Source, remark |
|---|---|---|
| No data available | | |

**Assessment/classification**
Causes severe irritation.

**Serious eye damage/irritation**
**Assessment/classification**
Causes severe irritation.

**Sensitisation of the respiratory tract**
Not determined

**Sensitisation of the skin**

**Animal data**

| Result / Evaluation | Dose / concentration | Method | Source, remark |
|---|---|---|---|
| No data available | | | |

**Assessment/classification**
May cause sensitisation by skin contact.

**Germ cell mutagenicity**
Not determined

**Carcinogenicity**
Not determined

**Reproductive toxicity**
Not determined

**Specific target organ toxicity - single exposure**
Not determined

**Specific target organ toxicity - repeated exposure**
Not determined

**Aspiration hazard**
Not determined

### 11.2 Information on other hazards

**Other information**
Toxicological data are not available.
The product has not been tested.
The statement is derived from the properties of the individual components.

## Section 12: Environmental information

### 12.1 Toxicity

**Aquatic toxicity**

| | Active dose | Method, evaluation | Source, remark |
|---|---|---|---|
| Acute (short-term) fish toxicity | not determined | | |
| Chronic (long-term) fish toxicity | not determined | | |
| Acute (short-term) toxicity to crustaceans | not determined | | |
| Chronic (long-term) toxicity to aquatic invertebrates | not determined | | |
| Acute (short-term) toxicity to algae and cyanobacteria | not determined | | |
| Chronic (long-term) toxicity to algae and cyanobacteria | not determined | | |
| Toxicity to other aquatic plants/organisms | not determined | | |
| Toxicity for microorganisms | not determined | | |

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

**Estimation / categorisation**

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of the PBT and vPvB assessment

No data available

### 12.6 Endocrine disrupting properties

No data available.

### 12.7 Other harmful effects

**Additional ecotoxicological information**

**Additional information**

Ecological data are not available.
Do not allow uncontrolled release of the product into the environment.
The product must not get into ground water or surface water.

## Section 13: Notes on disposal

### 13.1 Waste treatment processes

**Waste codes/waste designations according to EAK/AVV**

| Waste code | Product | Waste designation |
| --- | --- | --- |
| 160303 | *inorganic | wastes containing hazardous substances |
| 160507 | *Used | inorganic chemicals consisting of or containing hazardous substances |

**Proper disposal / product**
Product residues must be disposed of in accordance with the Ordinance on the Avoidance and disposal of waste (Ordinance on the Disposal of Waste, VVEA, SR 814.600), the Ordinance on on the Movement of Waste (VeVA, SR 814.610) and the Ordinance of the TOB on Lists on the transport of waste (LVA, SR 814.610.1).
Leave chemicals in original containers. Do not mix with other waste.
Uncleaned containers must be treated in accordance with the product.

**Proper disposal / packaging**
Completely emptied packaging can be recycled.
Non-contaminated and completely emptied packaging can be recycled. Contaminated packaging must be treated in the same way as the substance.

## Section 14: Transport details

### 14.1 UN number or ID number

| | |
| --- | --- |
| Land transport (ADR/RID) | - |
| Sea transport (IMDG) | - |
| Air transport (ICAO-TI / IATA-DGR) | - |

### 14.2 UN proper shipping name

| | |
| --- | --- |
| Land transport (ADR/RID) | No dangerous goods |
| Sea transport (IMDG) | Not dangerous goods |
| Air transport (ICAO-TI / IATA-DGR) | Not dangerous goods |

### 14.3 Transport hazard classes

| | |
| --- | --- |
| Land transport (ADR/RID) | - |
| Sea transport (IMDG) | - |
| Air transport (ICAO-TI / IATA-DGR) | - |

### 14.4 Packaging group

| | |
| --- | --- |
| Land transport (ADR/RID) | - |
| Sea transport (IMDG) | - |
| Air transport (ICAO-TI / IATA-DGR) | - |

### 14.5 Environmental hazards

| | |
| --- | --- |
| Land transport (ADR/RID) | no |
| Sea transport (IMDG) | Marine pollutant: no |

| | |
|---|---|
| Air transport (ICAO-TI / IATA-DGR) | no |

### 14.6 Special precautions for the user
No data available

### 14.7 Transport of bulk goods by sea in accordance with IMO instruments
No data available

**Land transport (ADR/RID)**

| | |
|---|---|
| UN number or ID number | - |
| Proper UN shipping name | - |
| Transport hazard classes | - |
| Hazard label | - |
| Classification code | - |
| Packaging group | - |
| Environmental hazards | no |
| Limited quantity (LQ) | - |
| Special regulations | - |
| Tunnel restriction code | - |

**Sea transport (IMDG)**

| | |
|---|---|
| UN number or ID number | - |
| Proper UN shipping name | - |
| Transport hazard classes | - |
| Packaging group | - |
| Environmental hazards | - |
| Limited quantity (LQ) | - |
| Marine pollutant | no |
| EmS | - |

**Air transport (ICAO-TI / IATA-DGR)**

| | |
|---|---|
| UN number or ID number | - |
| Proper UN shipping name | - |
| Transport hazard classes | - |
| Packaging group | - |
| Environmental hazards | - |

## Section 15: Legislation

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

This safety data sheet fulfils the requirements of Regulation (EC) No. 1907/2006.

**Restrictions on use**
None for professional users.

### 15.2 Chemical safety assessment

**National regulations**

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

## Section 16: Other information

**Abbreviations and acronyms**

Acute toxicity, Category 4, Ingestion; H302
Irritant effect on the skin, Category 2; H315
Eye irritation, Category 2; H319
Skin sensitisation, Category 1; H317

**Additional notes**
Existing national and local laws regarding chemicals must be observed.
The information in this safety data sheet is correct to the best of our knowledge, information and belief at the date of printing. The information is intended to provide you with guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. If the product is mixed, blended or processed with other materials or subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.

**Wording of H and EUH phrases (number and full text)**

H302: Harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.

**Further information**
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