

Safety data sheet	rotronic
MSDS_0%rF_2021_EN.docx	Safety data sheet in accordance with Regulation (EC) No. 1907/2006 Version 5.0 Revised 12.01.2021 Printed on March 18, 2021

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

1.1 Product identifiers

Product name	Humidity Standard 0.5 %RH
Product number	EA00-SCS
Brand	ROTRONIC
REACH no.	There is no registration number available for this substance because the substance or its use is exempted from registration, the annual tonnage does not require registration or registration is planned for a later point in time.
CAS no.	1318-02-1

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

Identified uses	Suitable only for the calibration of humidity meters
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1.3 Details of the supplier of the safety data sheet

Company	ROTRONIC AG Grindelstrasse 6 CH-8303 Bassersdorf	ROTRONIC Messgeräte GmbH Einsteinstrasse 17-23 D-76275 Ettlingen
Telephone	+41 44 838 11 11	+49 7243 383 250
Fax	+41 44 838 14 87	+49 7243 383 260
Email address	measure@rotronic.ch	info@rotronic.de

1.4 Emergency telephone number

Emergency telephone no.	Tox Info Suisse +41 44 251 51 51 (145)	Munich Poison Information Center (<i>Giftnotruf München</i>) +49 89 19240
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or hazardous mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

None

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS no.	1318-02-1
EC no.	215-283-8

No components need to be disclosed under applicable legislation.

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation

After inhalation, move the affected person into the fresh air. In the event of respiratory arrest, apply mouth to mouth resuscitation.

After skin contact

Wash off with soap and plenty of water.

After eye contact

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Rinse the eyes with water as precaution.

After swallowing

Never introduce anything through the mouth of an unconscious person. Rinse the mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described on the label (see section 2.2) and/or in section 11.

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

Use water spray, alcohol-resistant foam, dry chemical extinguishing agents or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Suppress the formation of dust. Avoid breathing vapors/mist/gas.

See section 8 for personal protective equipment.

6.2 Environmental precautions

No special environmental precautions necessary.

6.3 Methods and material for containment and cleaning up

Sweep together and scoop up. Collect in suitable and sealed containers for disposal.

6.4 Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

If dust forms, ensure adequate ventilation.

See section 2.2 for information on precautions.

7.2 Conditions for safe storage, including any incompatibilities

Keep the ampoules sealed and unopened in a cool, dry and well-ventilated place. Store glass ampoules in their sealed original packaging and protect this from impacts.

Hygroscopic.

7.3 Specific end uses

Except for the uses identified in section 1.2, no other specific uses are anticipated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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Components with workplace control parameters

Does not contain any substances with workplace exposure limits.

8.2 Exposure controls

Appropriate engineering controls

Usual general occupational hygiene precautions.

Personal protective equipment

Eye/face protection

The eye protection you use must have been tested and approved in accordance with official standards, e.g. NIOSH (US) or EN 166 (EU).

Skin protection

Work with gloves. Gloves must be inspected before use. Use a suitable glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The protective gloves used must comply with the specifications of EC Directive 2016/425 and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Breakthrough time: 480 min.

Tested material: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Breakthrough time: 480 min.

Tested material: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

Data source: KCL GmbH, D-36124 Eichenzell, telephone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN 374

If used in solution or mixed with other substances and under conditions which differ from EN 374, contact a supplier of CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and a safety professional familiar with the specific situation of anticipated use by our customers. It should not be construed as approval for any specific use scenario.

Body protection

Choose body protection equipment according to its type, the concentration and quantity of the hazardous substance and the particular workplace. The type of protective equipment chosen must be suitable for the concentration and quantity of the hazardous substance at the workplace.

Respiratory protection

Respiratory protection is not necessary. Where protection against annoying dust concentrations is required, use a dust mask type N95 (US) or a respirator mask with filter type P1 (EN 143). The breathing apparatus and its components must have been tested and approved in accordance with national standards, e.g. NIOSH (US) or CEN (EU).

Environmental exposure controls

No special environmental precautions necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety data sheet**rotronic****MSDS_0%rF_2021_EN.docx**

Safety data sheet
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Version 5.0 Revised 12.01.2021
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a) Appearance	State: solid
b) Odor	No data available
c) Odor threshold	No data available
d) pH value	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	Not applicable
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

Stable under the specified storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Avoid humidity.

10.5 Incompatible materials

Strong acids, strong bases, hydrogen fluoride, chlorine trifluoride, ethylene oxide, halogenated hydrocarbon, oxygen difluoride, sodium nitrate, vinyl compounds, strong oxidants.

10.6 Hazardous decomposition products

Hazardous decomposition products may form in a fire - type of decomposition products unknown.
Other decomposition products - no data available. In case of fire: see section 5.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

LD50 Oral - rat	10,000 mg/kg
LC50 Inhalation - rat (4 h)	5,300 mg/m ³
LD50 Skin - rabbit	2,000 mg/kg

Skin corrosion/irritation

Skin - human	No skin irritation
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Serious eye damage/irritation

Eyes - rabbit	No eye irritation
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Respiratory or skin sensitization

No data available

Germ cell mutagenicity

Human	Lymphocytes cytogenic analysis
Mouse	Cytogenic analysis

Carcinogenicity

This product is or contains a component that is not classified according to the classifications of IARC, ACGIH, NTP or EPA regarding carcinogenic effects.

IARC: No component of this product present at levels greater than or equal to 0.1% has been identified by the IARC as a probable, possible or confirmed human carcinogen.

Reproductive toxicity

No data available.

Specific target organ toxicity (STOT) – single exposure

No data available.

Specific target organ toxicity (STOT) – repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

RTECS: ZG6800000

Long-term exposure causes	Damage to the lungs. Coughing, breathing difficulties, gastrointestinal disorders.
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SECTION 12: Ecological information

12.1 Toxicity

No data 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

A PBT/vPvB assessment is not available because a chemical safety assessment was not required/not conducted.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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Product

All national and local laws must be observed.

Commission an approved disposal company to dispose of residual quantities and solutions that can no longer be used. These products must be dissolved in or mixed with a flammable solvent and destroyed in an incinerator for chemicals (with afterburner and exhaust air scrubber).

Contaminated packaging

Disposal identical to unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID	-
IMDG	-
IATA	-

14.2 UN proper shipping name

ADR/RID	No dangerous good
IMDG	No dangerous good
IATA	No dangerous good

14.3 Transport hazard classes

ADR/RID	-
IMDG	-
IATA	-

14.4 Packing group

ADR/RID	-
IMDG	-
IATA	-

14.5 Environmental hazards

ADR/RID	No
IMDG Marine pollutant	No
IATA	No

14.6 Special precautions for user

No data available.

SECTION 15: Regulatory information

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

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

15.2 Chemical safety assessment

No chemical safety assessment was performed for this product.

SECTION 16: Other information

Further information

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