

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

RS REACH revision date 01/12/10

Revision Date 31.11.2010

1. Identification of the substance/mixture and of the company/undertaking

Product Information

Catalogue No.: 600-014
Product name: Fine Etch Crystals
Use of the Substance/Mixture: Chemical production

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2. Hazards identification

GHS Classification

Oxidizing solid, Category 3	H272: May intensify fire; oxidiser.
Acute toxicity, Category 4, Oral	H302: Harmful if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure, Category 3	H335: May cause respiratory irritation.
Aspiration hazard, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.

EC Classification

O; R8
Xn; R22
Xi; R36/37/38
R42/43

For the full text of the R-phrases mentioned in this Section, see Section 16.

3. Composition/information on ingredients : SODIUM PEROXIDISULFATE

Formula	Na ₂ S ₂ O ₈	Na ₂ O ₈ S ₂ (Hill)
CAS-No.	7775-27-1	
EC-No.	231-892-1	
Molar mass	238,11 g/mol	

4. First aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

After swallowing: immediately make victim drink water (two glasses at the most). Consult a physician.

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5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during fire fighting

Not combustible.

Has a fire-promoting effect due to release of oxygen.

Ambient fire may liberate hazardous vapours.

Fire may cause evolution of:

Sulphur oxides

Special protective equipment for fire-fighters

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

Personal precautions

Avoid substance contact. Avoid generation of dusts; do not inhale dusts. Ensure adequate ventilation.

Environmental precautions

Do not empty into drains.

Methods for cleaning up

Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

7. Handling and storage

Handling

Advice on safe handling

Work under hood. Do not inhale substance.

Storage

Further information on storage conditions

Tightly closed. Dry. Away from combustible materials and sources of ignition and heat.

Store at +15°C to +25°C.

8. Exposure controls/personal protection

Personal protective equipment

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection

required when dusts are generated.

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Recommended Filter type: filter ABEK

Hand protection

full contact:

Glove material: Nitrile rubber
Glove thickness: 0,11 mm
Break through time: > 480 min

splash contact:

Glove material: Nitrile rubber
Glove thickness: 0,11 mm
Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374, for example. KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

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 and supplied by us as well as to the purpose specified by us. 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.

Eye protection

Safety glasses

Protective measures

Protective suit

Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

9. Physical and chemical properties

Form	solid
Colour	white
Odour	odourless
pH	3,5 - 3,8 at 100 g/l 20 °C
Viscosity, dynamic	no data available
Melting point	(decomposition)
Boiling point/boiling range	not applicable
Ignition temperature	not combustible
Flash point	does not flash
Oxidizing properties	no data available

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Flammability	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	not applicable
Relative vapour density	no data available
Density	1,2 g/cm ³ at 20 °C
Bulk density	ca.1.150 kg/m ³
Solubility/qualitative	no data available
Water solubility	545 g/l at 20 °C
Partition coefficient: n- octanol/water	no data available
Evaporation rate	no data available

10. Stability and reactivity

Conditions to avoid

Heating.

Exposure to moisture.

Materials to avoid

Violent reactions possible with:

Reducing agents, combustible substances, Alcohols, Strong acids, Bases, Heavy metal salts

Hazardous decomposition products

in the event of fire: See chapter 5.

Thermal decomposition

ca.180 °C

Further information

Oxidising, strong oxidizing agent

Risk of dust explosion.

11. Toxicological information

Acute oral toxicity

LD50 rat

Dose: 920 mg/kg

(IUCLID)

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

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absorption

Acute inhalation toxicity

LC50 rat

Dose: > 5,1 mg/l, 4 h

(External MSDS)

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages: After a latency period: Lung oedema, The substance has delayed effects.

Acute dermal toxicity

LD50 rabbit

Dose: > 10.000 mg/kg

(External MSDS)

Skin irritation

rabbit

Result: No irritation

(IUCLID)

Irritations

Eye irritation

rabbit

Result: No eye irritation

(IUCLID)

Causes serious eye damage.

Sensitisation

Sensitization test: guinea pig

Result: positive

Method: OECD Test Guideline 406

May cause sensitization by inhalation and skin contact.

Genotoxicity in vitro

Ames test

Result: negative

(IUCLID)

Further information

Systemic effects:

Nausea, Vomiting, Headache, Shortness of breath

Further data:

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

Ecotoxicity

Toxicity to fish

LC50

Species: *Oncorhynchus mykiss* (rainbow trout)

Dose: 771 mg/l

Exposure time: 96 h

(IUCLID)

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Toxicity to daphnia and other aquatic invertebrates.

EC50

Species: Daphnia magna (Water flea)

Dose: 133 mg/l

Exposure time: 48 h

(IUCLID)

Persistence and degradability

Biodegradability

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

Additional ecological information

Biological effects:

Reacts with water to form toxic decomposition products.

Further information on ecology

Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Product

Chemicals must be disposed of in compliance with the respective national regulations.

Packaging

Mega product packaging must be disposed of in compliance with the local specific regulations

14. Transport information

ADR/RID

UN 1505 SODIUM PERSULPHATE, 5.1, III

IATA

UN 1505 SODIUM PERSULPHATE, 5.1, III

IMDG

UN 1505 SODIUM PERSULPHATE, 5.1, III

EmS F-A S-Q

The transport regulations re cited according to international regulations

15. Regulatory information

GHS-Labeling

Hazard pictograms



Signal word

Danger

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Hazard statements

H272: May intensify fire; oxidiser.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317: May cause an allergic skin reaction.

Precautionary statements

P280: Wear protective gloves.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P304 + P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Reduced labelling (≤125 ml)

Hazard pictograms



Signal word
Danger

Hazard statements

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317: May cause an allergic skin reaction.

Precautionary statements

P280: Wear protective gloves.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P304 + P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

CAS-No. 7775-27-1

Labelling according to EC Directives

Symbol(s):	O Xn	Oxidising Harmful
R-phrase(s):	8-22-36/37/38-42/43	Contact with combustible material may cause fire. Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.
S-phrase(s):	22-24-26-37-45	Do not breathe dust. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

EC-No. 231-892-1

Reduced labelling (≤125 ml)

Symbol(s):	O Xn	Oxidising Harmful
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R-phrase(s): 22-42/43	Harmful if swallowed. May cause sensitization by inhalation and skin contact.
S-phrase(s): 22-24-37-45	Do not breathe dust. Avoid contact with skin. Wear suitable gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National legislation

Storage class VCI: 5.1 B Oxidizing agents (TRG 515 Group 2+3)

Major Accident Hazard Legislation: 96/82/EC Update: 2003
Oxidising
3
Quantity 1: 50 t
Quantity 2: 200 t

Other regulations: Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R 8	Contact with combustible material may cause fire.
R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitization by inhalation and skin contact.

Regional representation: This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.