



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date 26/10/2015

Version 9.9

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

### 1.1 Product identifier

Catalogue No.	600-014
Product name	Fine Etch Crystals
REACH Registration Number	A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
CAS-No.	7775-27-1

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

Identified uses	Etching
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### 1.3 Details of the supplier of the safety data sheet

Company	MEGA ELECTRONICS LTD, THE GRIP , LINTON, CAMBRIDGE CB21 4XN.
Responsible Department	mike@megauk.com

1.4 Emergency telephone number	+44(0) 01223 893900 24H: 49 (0) 7623917272
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## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Oxidising solid, Category 3, H272  
Acute toxicity, Category 4, Oral, H302  
Respiratory sensitisation, Category 1, H334  
Skin sensitisation, Category 1, H317  
Specific target organ toxicity - single exposure, Category 3, Respiratory system, H335  
For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification (67/548/EEC or 1999/45/EC)

O	Oxidising	R8
Xn	Harmful	R22
Xi	Irritant	R36/37/38 R42/43

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

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## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

#### Precautionary statements

##### Prevention

P280 Wear protective gloves.

##### Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: 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.

#### Reduced labelling (≤125 ml)

##### Hazard pictograms



##### Signal word

Danger

##### Hazard statements

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

##### Precautionary statements

P280 Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

CAS-No. 7775-27-1

## 2.3 Other hazards

None known.

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## SECTION 3. Composition/information on ingredients

### 3.1 Substance

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

## Hazardous components (REGULATION (EC) No 1272/2008)

*Chemical Name (Concentration)*

CAS-No.	Registration number	Classification
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disodium peroxodisulphate (<= 100 %)

7775-27-1	*)	Oxidising solid, Category 3, H272 Acute toxicity, Category 4, H302 Respiratory sensitisation, Category 1, H334 Skin sensitisation, Category 1, H317 Specific target organ toxicity - single exposure, Category 3, H335
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\*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## Hazardous components (1999/45/EC)

*Chemical Name (Concentration)*

CAS-No.	Classification
disodium peroxodisulphate (<= 100 %)	
7775-27-1	O, Oxidising; R8 Xn, Harmful; R22 Xi, Irritant; R36/37/38 R42/43

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

## 3.2 Mixture

not applicable

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## SECTION 4. First aid measures

### 4.1 Description of first aid measures

*General advice*

First aider needs to protect himself.

After inhalation: fresh air. Call in physician.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician.

After eye contact: rinse out with plenty of water.

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

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

Allergic reactions, Cough, Shortness of breath, Nausea, Vomiting, Headache

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

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## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

#### *Suitable extinguishing media*

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

#### *Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

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

Not combustible.

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

Risk of dust explosion.

Ambient fire may liberate hazardous vapours.

Fire may cause evolution of:

Sulphur oxides

### 5.3 Advice for firefighters

#### *Special protective equipment for firefighters*

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing 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 watersystem.

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## SECTION 6. Accidental release measures

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

Advice for non-emergency personnel: Avoid substance contact. Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

### 6.2 Environmental precautions

Do not empty into drains.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Clean up carefully. Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

Indications about waste treatment see section 13.

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## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

#### *Advice on safe handling*

Observe label precautions.

Work under hood. Do not inhale substance/mixture.

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### *Hygiene measures*

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

## **7.2 Conditions for safe storage, including any incompatibilities**

### *Storage conditions*

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

Recommended storage temperature see product label.

## **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## **SECTION 8. Exposure controls/personal protection**

### **8.1 Control parameters**

### **8.2 Exposure controls**

#### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### **Individual protection measures**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

#### *Eye/face protection*

Safety glasses

#### *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 related standard EN374.

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.

#### *Other protective equipment*

protective clothing

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### *Respiratory protection*

required when dusts are generated.

Recommended Filter type: Filter P 2 for solid and liquid particles of harmful substances

The user has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### **Environmental exposure controls**

Do not empty into drains.

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## **SECTION 9. Physical and chemical properties**

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

Form	solid
Colour	white
Odour	odourless
Odour Threshold	not applicable
pH	3,5 - 3,8 at 100 g/l 20 °C
Melting point	No information available.
Boiling point/boiling range	not applicable
Flash point	does not flash
Evaporation rate	No information available.
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	not applicable
Relative vapour density	No information available.
Density	1,2 g/cm <sup>3</sup> at 20 °C
Relative density	No information available.
Water solubility	545 g/l at 20 °C
Partition coefficient: n-octanol/water	No information available.

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Auto-ignition temperature	No information available.
Decomposition temperature	ca.180 °C
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	The substance or mixture is classified as oxidizing with category 3.

## 9.2 Other data

Ignition temperature	not combustible
Bulk density	ca.1.150 kg/m <sup>3</sup>

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## SECTION 10. Stability and reactivity

### 10.1 Reactivity

Oxidising  
strong oxidising agent  
Risk of dust explosion.

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Violent reactions possible with:  
Reducing agents, combustible substances, Alcohols, Strong Acids, Bases, Heavy metal salts

### 10.4 Conditions to avoid

Strong heating (decomposition).  
Exposure to moisture.

### 10.5 Incompatible materials

no information available

### 10.6 Hazardous decomposition products

in the event of fire: See section 5.

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## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### *Acute oral toxicity*

LD50 rat: 920 mg/kg (IUCLID)

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

absorption

#### *Acute inhalation toxicity*

LC50 rat: > 5,1 mg/l; 4 h (External MSDS)

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Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract, After a latency period:, Lung oedema

### *Acute dermal toxicity*

LD50 rabbit: > 10.000 mg/kg (External MSDS)

### *Skin irritation*

rabbit

Result: No irritation  
(IUCLID)

### *Eye irritation*

rabbit

Result: No eye irritation  
(IUCLID)

### *Sensitisation*

Sensitisation test: guinea pig

Result: positive

Method: OECD Test Guideline 406

May cause sensitisation by inhalation and skin contact.

### *Germ cell mutagenicity*

### *Genotoxicity in vitro*

Ames test

Result: negative  
(IUCLID)

### *Carcinogenicity*

This information is not available.

### *Reproductive toxicity*

This information is not available.

### *Teratogenicity*

This information is not available.

### *Specific target organ toxicity - single exposure*

May cause respiratory irritation.

### *Specific target organ toxicity - repeated exposure*

This information is not available.

### *Aspiration hazard*

This information is not available.

## 11.2 Further information

Systemic effects:

Nausea, Vomiting, Headache

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 12. Ecological information

### 12.1 Toxicity

#### *Toxicity to fish*

LC50 *Oncorhynchus mykiss* (rainbow trout): 771 mg/l; 96 h (IUCLID)

#### *Toxicity to daphnia and other aquatic invertebrates*

EC50 *Daphnia magna* (Water flea): 133 mg/l; 48 h (IUCLID)

### 12.2 Persistence and degradability



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## *Biodegradability*

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

### **12.3 Bioaccumulative potential**

No information available.

### **12.4 Mobility in soil**

No information available.

### **12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### **12.6 Other adverse effects**

*Additional ecological information*

Biological effects:

Discharge into the environment must be avoided.

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## **SECTION 13. Disposal considerations**

### *Waste treatment methods*

Disposal according to local regulations. 2008/98/EU applies.

Non contaminated packaging can be recycled.

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## **SECTION 14. Transport information**

### **Land transport (ADR/RID)**

<b>14.1 UN number</b>	UN 1505
<b>14.2 Proper shipping name</b>	SODIUM PERSULPHATE
<b>14.3 Class</b>	5.1
<b>14.4 Packing group</b>	III
<b>14.5 Environmentally hazardous</b>	--
<b>14.6 Special precautions for user</b>	no
Tunnel restriction code	E

### **Inland waterway transport (ADN)**

Not relevant

### **Air transport (IATA)**

<b>14.1 UN number</b>	UN 1505
<b>14.2 Proper shipping name</b>	SODIUM PERSULPHATE
<b>14.3 Class</b>	5.1
<b>14.4 Packing group</b>	III
<b>14.5 Environmentally hazardous</b>	--
<b>14.6 Special precautions for user</b>	no

### **Sea transport (IMDG)**

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**14.1 UN number** UN 1505  
**14.2 Proper shipping name** SODIUM PERSULPHATE  
**14.3 Class** 5.1  
**14.4 Packing group** III  
**14.5 Environmentally hazardous** --  
**14.6 Special precautions for user** no  
**EmS** F-A S-Q  
**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not relevant

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## SECTION 15. Regulatory information

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

#### *EU regulations*

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

Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at work.  
  
Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC not regulated

Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals not regulated

Substances of very high concern (SVHC) 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  $\geq 0.1$  % (w/w).

#### *National legislation*

Storage class 5.1B

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

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## SECTION 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

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



### 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 sensitisation by inhalation and skin contact.

### Training advice



Provide adequate information, instruction and training for operators.

### Labelling (67/548/EEC or 1999/45/EC)

*Symbol(s)*  O Oxidising  
 Xn 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 sensitisation 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 Oxidising  
 Xn Harmful  
*R-phrase(s)* 22-42/43 Harmful if swallowed. May cause sensitisation 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).

### Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

### Regional representation

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

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

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