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# ReAgent

## COPPER SULPHATE 5 H<sub>2</sub>O LRG MSDS

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	COPPER SULPHATE 5 H <sub>2</sub> O LRG
CAS-No.	7758-99-8
EC No.	231-847-6
SUPPLIER	Reagent Chemical Services 18 Aston Fields Road Whitehouse Industrial Estate Runcorn Cheshire WA7 3DL T: 01928 716903 F: 01928 716425 E: <a href="mailto:info@reagent.co.uk">info@reagent.co.uk</a>
PRODUCT NO.	1515
APPLICATION	General chemical reagent

### 2 HAZARDS IDENTIFICATION

Harmful if swallowed. Irritating to eyes and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION (67/548) Xn;R22. Xi;R36/38. N;R50/53.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

EC No.	231-847-6
CAS-No.	7758-99-8

### 4 FIRST-AID MEASURES

#### INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

#### INGESTION

Immediately rinse mouth and drink plenty of water. Get medical attention immediately!

#### SKIN CONTACT

Immediately remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

#### EYE CONTACT

Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention if any discomfort continues.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

#### SPECIAL FIRE FIGHTING PROCEDURES

Keep run-off water out of sewers and water sources. Dike for water control.

#### SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed. Sulphur dioxide.

#### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

### 6 ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

**COPPER SULPHATE 5 H<sub>2</sub>O LRG****ENVIRONMENTAL PRECAUTIONS**

Do not allow to enter sewers

**SPILL CLEAN UP METHODS**

Avoid dust formation. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry and cool place.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION****ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded.

**RESPIRATORY EQUIPMENT**

In case of inadequate ventilation use suitable respirator.

**HAND PROTECTION**

Wear protective gloves. Rubber or plastic

**EYE PROTECTION**

Wear approved safety goggles.

**OTHER PROTECTION**

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station.

**HYGIENE MEASURES**

Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Crystals		
COLOUR	Blue		
ODOUR	Odourless		
MELTING POINT (°C)	110 (Decomposition)	RELATIVE DENSITY	2.29
pH-VALUE, DILUTED SOLUTION	About 4-5%	SOLUBILITY VALUE (g/100g H <sub>2</sub> O@20°C)	31.7

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions.

**11 TOXICOLOGICAL INFORMATION**

TOXIC DOSE 1 - LD 50                      300 mg/kg (oral rat)

**INHALATION**

Dust may irritate throat and respiratory system and cause coughing.

**INGESTION**

May irritate and cause stomach pain, vomiting and diarrhoea.

**SKIN CONTACT**

Irritating to skin.

**EYE CONTACT**

Irritating to eyes. Risk of corneal damage.

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

EC 50, 48 Hrs, DAPHNIA, mg/l            0.038 (Daphnia magna)

**13 DISPOSAL CONSIDERATIONS**

## COPPER SULPHATE 5 H2O LRG

**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

**14 TRANSPORT INFORMATION**



UK ROAD CLASS	9		
PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER (II) SULPHATE)		
UN NO. ROAD	3077	UK ROAD PACK GR.	III
ADR CLASS NO.	9	ADR CLASS	Class 9: Miscellaneous dangerous substances and articles.
ADR PACK GROUP	III	ADR LABEL NO.	9
RID CLASS NO.	9	RID PACK GROUP	III
UN NO. SEA	3077	IMDG CLASS	9
IMDG PAGE NO.	9	IMDG PACK GR.	III
EMS	F-A, S-F	MFAG	See Guide
MARINE POLLUTANT		UN NO. AIR	3077



AIR CLASS	9	AIR PACK GR.	III
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**15 REGULATORY INFORMATION**

**LABELLING**



Harmful



Dangerous for the environment

**RISK PHRASES**

R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**SAFETY PHRASES**

S2	Keep out of the reach of children.
S22	Do not breathe dust.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

**STATUTORY INSTRUMENTS**

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

**APPROVED CODE OF PRACTICE**

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.

**GUIDANCE NOTES**

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

**NATIONAL REGULATIONS**

Control of Substances Hazardous to Health Regulations 2002 (as amended)

**16 OTHER INFORMATION**

## COPPER SULPHATE 5 H<sub>2</sub>O LRG

### GENERAL INFORMATION

Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

### REVISION COMMENTS

Change to sections 1, 2

REVISION DATE 16/04/2010

REV. NO./REPL. SDS GENERATED 1

SDS NO. 20567