

# SAFETY DATA SHEET (SDS)

SDS Nr.	120000
Issue Date	11/2009
Revision Date	01/2016
Next Revision Date	01/2021

## SECTION 1.

### COMPANY IDENTIFICATION & PRODUCT INFORMATION


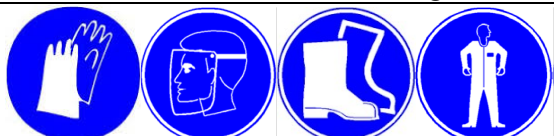
COMPANY: IN LINE TRADING 112 Pty Ltd                      Tel: +27 (11) 392 4072  
Postnet Suite #114    Fax: +27 (11) 392 4363  
Private Bag X27  
KEMPTON PARK  
Gauteng Province  
South Africa

EMERGENCY PHONE NUMBER	+27 (82) 468 3878
------------------------	-------------------

NAME USED ON LABEL	Copper Sulphate Pentahydrate
SYNONYMS	Copper Sulphate tech
PRODUT USE:	Fungicide, Bactericide, Fertigation
UN Nr.	3082

## SECTION 2.

### HAZARDOUS IDENTIFICATION

GHS (Pictogram)	Protective Clothing
	

Signal Word

**WARNING**

HAZARD CLASS	HAZARD CATEGORY
Acute Toxicity, Oral Eye Irritation	Category 5 Category 2B

<b>GHS Hazard Statement</b>
H410 – Very toxic to aquatic life with long lasting effect H319 – Causes Serious Eye Irritation. H315 – Causes skin Irritation H302 – Harmful if swallowed
<b>GHS Precautionary Statement</b>
P273 – Avoid release to the environment P302,P352 – If on skin – wash with plenty of soap and water P305,P351,P338 – If in eyes – rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do P264 – Wash hands thoroughly after handling P280 – Wear protective gloves/clothing. P102 – Keep out of reach of children. P101 – If medical advice is needed, have product container or label at hand.

INHALATION EXPOSURE	May Causes irritation to mucous membranes
INGESTION	Mildly corrosive to gastrointestinal tract at levels greater than 5mg/m <sup>3</sup> .
SKIN CONTACT	Does not cause irritation to intact skin. Wash with running water
EYE CONTACT	Non-irritating to eyes. Wash with running water.
CHRONIC (PROLONGED) EXPOSURE	No information available
AGRIVATING CONDITIONS WITH COMBINATIONS	No information available

**SECTION 3.**  
**COMPOSITION & INFORMATION ON INGREDIENTS**

Identity	CAS-No.	% w/w	Symbol
Copper	7758-99-8	98	Xi

Ingredients not identified are confidential or non hazardous. Values on MSDS are not product specifications

**SECTION 4.**  
**FIRST AID MEASURES**

IF IN HALLED	Remove victim to fresh air.
IF SWALLOWED	Do not induce vomiting, unless under direction of a physician or a poison control center expert. If spontaneous vomiting

	occurs, have the victim lean forward with the head down to avoid breathing in of vomit, rinse mouth and administer water.
IF ON SKIN	If irritation rinse. Seek medical advice if required.
IF IN EYES	Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists repeat rinse.

**MEDICAL ADVICE:** Symptomatic treatment and supportive therapy as indicated above

**SECTION 5.**  
**FIRE FIGHTING MEASURES**

AUTO IGNITION TEMPERATURE (°C)	>480
FLASH POINT (°C)	No Flash

EXSTINGUISHING MEDIA	For small fires, use foam, carbon dioxide or dry powder extinguishing. For large fires use foam or water-fog; avoid using water jet. Contain run-off with barriers, e.g. earth.
FIRE & EXPLOSION HAZARDS	The product is very difficult to combust, but can be burned. Keep fire exposed containers cool by spraying with water. Container could explode when heated.
PROTECTIVE EQUIPMENT	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus. Fire might produce irritating or poisonous vapors, mists or other combustion products.

**SECTION 6.**  
**ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS	Ventilate area of spill or leak. Ensure suitable personal protection during removal of spills. Wear eye protection, chemically resistant gloves, boots and coveralls.
CLEANING METHODS	Absorb spillages onto sand, earth or any suitable absorbent material. Transfer to a container for disposal. Wash the spillage area with water. Washing must be prevented from entering surface water drains. Seal drums and dispose of contaminated material in a facility permitted for hazardous waste. Large spills should be handled according to a spill remediation plan.
DEACTIVATING CHEMICALS	None Known

ADDITIONAL INFORMATION	Spillages or uncontrolled discharges into water sources must be alerted to the appropriate regulatory body.
------------------------	---

**SECTION 7.**  
**HANDLING AND STORAGE**

SAFE HANDLING	Practice good industrial housekeeping practices
STORAGE REQUIREMENTS	Store in original containers with lid closed. Keep in cool and dry area. Protect the containers from physical damage.
STORAGE TEMPERATURE	Do not expose sealed containers to temperatures exceeding 37°C

**SECTION 8.**  
**EXPOSURE CONTROL/PERSONAL PROTECTION**

VENTILATION CONTROL	Dilution ventilation is a satisfactory health hazard control. Where discomfort is caused to workers, a local exhaust system should be installed. Special Precautions: Avoid breathing vapors or aerosols for prolonged periods.
EYE PROTECTION	Eye contact with the material should be avoided through the use of chemical safety glasses, goggles or face shields. Maintain eye wash fountain and quick drench facilities in work areas
SKIN PROTECTION	Gloves and protective clothing made from Viton or PVC should be used. Verify impermeability under normal usage conditions.

**SECTION 9.**  
**PHYSICAL & CHEMICAL PROPERTIES**

FORM	Powder
COLOUR	Blue
ODOUR	None
BOILING POINT (°C)	Not Available
MELTING POINT (°C)	Decomposes above 200°C
VAPOR PRESSURE (mmHg)	Not Available
SPECIFIC GRAVITY (g/cm <sup>3</sup> )	2.284 (20°C)
SOLUBILITY	317g/l
pH-Value	3.7
FLASH POINT (°C)	No Flash
EXPLOSIVE PROPERTIES	Non-Explosive

**SECTION 10.**  
**STABILITY & REACTIVITY**

STABILITY	Stable under normal storage and usage conditions
INCOMPATIBILITY	Strong Oxidizing agents. Can be made to burn under fire conditions.
HAZARDOUS POLYMERISATION	Will not occur
HAZARDOUS DECOMPOSITION	Carbon Dioxide, Carbon Monoxide, and possibly irritating gases may form
CONDITIONS TO AVOID	Heat, flames, ignition sources and incompatibles
THERMAL DECOMPOSITION	Toxic fumes may be released when decomposed by heating.

**SECTION 11.**  
**TOXICOLOGICAL INFORMATION**

ORAL LD50 (Rat)	> 1350mg/Kg
DERMAL LD50 (Rabbit)	> 2000mg/Kg
INHALATION LD50 (Rat)	>25mg/ltr. (4hr)
OTHER EFFECTS OF OVEREXPOSURE	Non Hazardous
CARCINOGENIC EFFECTS	The components of this product are relatively stable under ambient, environmental conditions. There is no evidence of biotransformation of copper compounds. Copper is accumulated by plants and animals.
REPRODUCTIVE TOXICITY	Due to its fungicidal activity, aquatic contamination will be harmful and kill fish and other aquatic organisms.

**SECTION 12.**  
**ECOLOGICAL INFORMATION**


ENVIRONMENTAL FATE	No information available
ENVIRONMENTAL TOXICITY	No information available

**SECTION 13.**  
**DISPOSAL CONSIDERATIONS**

Dispose contaminated absorbents, surplus product, etc. in a facility permitted for hazardous waste. Surfactants can cause foaming problems in biological wastewater treatment plants.
Empty containers should be rinsed and disposed of in accordance to local waste disposal legislation. Do not reuse containers

**SECTION 14.**  
**TRANSPORT INFORMATION**

UN number	3082
-----------	------

Shipping name	Environmentally Hazardous Liquid
ADR/RID Class IATA-DGR Class Packaging Instruction (Cargo Aircraft) Packaging Instruction (Passenger Aircraft) Marine Pollutant	Class 9, Packaging Group III Class 9, Packaging Group III 964 Y964 Yes
ADR/RID Label	

**SECTION 15.**  
**REGULATORY INFORMATION**

NATIONAL LEGISLATIONS	National Road Traffic Act, 1996 (Act 93 of 1996) Fire Brigade Service Act, 1987 (Act 99 of 1987) Occupational Health & Safety Act, 1993 (Act 85 of 1993)
-----------------------	--

**SECTION 16.**  
**OTHER INFORMATION**

The Information contained in this SDS is offered as a guide to handle specific material and is based on the current scientific and technical knowledge at the date indicated on the present SDS. This information is provided in good faith and believed to be accurate and correct. This information is not intended to be all inclusive and the manner and conditions of use and handling may involve other additional considerations. No warranty of any kind is given or implied by IN LINE TRADING and IN LINE TRADING will not be liable for any damages, injuries or consequential damages which may result from the use of or reliance on any information contained herein. It remains the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product.

Upon receipt of any changes a new SDS will be made available

This SDS is prepared and maintained by: IN LINE TRADING