

Liquid Copper Product Characteristics and MSDS details. April 2012

Product	Horticultural Fungicide Bactericide
Manufacturer	Suntec NZ Ltd, 747 Makerua Rd (SH57) , Tokomaru, New Zealand
Supplied by	Suntec (NZ) Ltd, P O Box 41, Tokomaru 4864, New Zealand +64 6 3298142, fax +64 6 3298041, internet www.suntec.co.nz email suntec@suntec.co.nz
Formulation type	Suspension Concentrate
Active ingredient(s)	35 G PER LITRE Copper (II) Hydroxide Various reaction products including sulfate-hydroxides of copper. Ingredients derived from proprietary process.
Harzardous ingredients HSNO Status	Copper salts. Alkali. 6.3A Skin Irritant 6.4A Eye Irritant 6.5B Sensitizer 6.9A Toxic to target organs 9.1A Toxic to Aquatic Environment

PHYSICAL

Appearance	Pale Blue liquid
Specific Gravity	1150 + g per litre
pH	7.2 – 7.5 (stabilised)
Solubility in Water	Insoluble. Formulation mixes readily with water
Flammability	Non-Flammable. No toxic combustion products.

HAZARD IDENTIFICATION

Inhalation	NONE
Eye irritation	CAN CAUSE SERIOUS EYE IRRITATION AVOID CONTACT WITH EYES.
Skin Absorption	CAN CAUSE SERIOUS SKIN IRRITATION. AVOID CONTACT WITH SKIN.
Ingestion	CAN CAUSE SERIOUS INTERNAL DAMAGE IF INGESTED.
Chronic	EXCESS LONG TERM EXPOSURE TO COPPER IS POTENTIALLY CARCINOGENIC.

TOXICOLOGY

ORAL LD ₅₀	>2000 mg/kg HSNO Classification 6.1E
DERMAL LD ₅₀	> 2000 mg/kg
INHALATION	NONE

ECOTOXICITY Environmental Hazard. Avoid spillage into any waterway. Highly persistent in the environment. TOXIC TO TERRESTRIAL INVERTEBRATES AND MARINE ORGANISMS

FIRST AID MEASURES

Inhalation Remove patient to fresh air.

Eye Contact IF EYE CONTACT OCCURS WASH WITH WARM WATER FOR AT LEAST 15 MINUTES. SEEK URGENT MEDICAL ATTENTION.

Skin Contact IF SKIN CONTACT OCCURS REMOVE ALL CONTAMINATED CLOTHING AND WASH AFFECTED AREA WITH SOAP AND WARM WATER FOR AT LEAST 15 MINUTES. IF ALLERGIC REACTION OCCURS SEEK MEDICAL ATTENTION.

Ingestion AN INVOLUNTARY GASTRIC REACTION RESULTS IN VOMITTING OF PRODUCT UNDER MOST CONDITIONS. Give plenty of water or mildly acidic juices.

Emergency Treatment ADVISE MEDICAL PERSONNEL THAT MODERATELY ALKALINE LIQUID CONTAINING INORGANIC COPPER HAS BEEN INGESTED. MONITOR PATIENT FOR 24 HOURS.

ACCIDENTAL SPILLAGE

Land Spill If practical remove and dispose of contaminated soil. Absorb spilt product with sawdust or sand or similar material and dispose in controlled manner. Flush area with hot water. Ventilate area.

Contamination of waterway Avoid further spillage of concentrate into waterway. Ensure adequate dilution of spilt material.

HANDLING AND STORAGE

Storage Store sealed and dry under cool dark conditions.
Mixing Do not mix with oils, strongly acidic materials or oxidising agents.

EXPOSURE AND PERSONAL PROTECTION

Applicators Respirator, skin and eye protection recommended during measuring and application.

Re-Packaging of Product Skin Protection (gloves), eye protection recommended.

USEAGE STATEMENT NOT TO BE TAKEN.
NOT FOR USE ON ANY FOOD PRODUCING PLANTS.
NOT FOR USE ON ANIMALS OR HUMANS.