

**MATERIAL SAFETY DATA SHEET**

**EC-ISA-CU1-BT**

Last updated on 3<sup>rd</sup> October 2008

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**GENERAL INFORMATION**

PRODUCT NAME:	Copper ISA 5M NaNO <sub>3</sub>
MANUFACTURE'S NAME:	Eutech Instrument PTE LTD
DISTRIBUTED BY:	Eutech Instrument PTE LTD
CHEMICAL NAME:	Sodium Nitrate in Water
CHEMICAL FAMILY:	Salt Solution
IATA SHIPPING INFO:	Oxidizer
DOT SHIPPING INFO:	Oxidizer

**INGREDIENTS**

CAS NO:	NE
% of NaNO <sub>3</sub> :	42.5%
% of water:	57.5%
OSHA/PEL:	none
ACGIH/TLV:	none
LD50(mg/kg) oral-rat of NaNO <sub>3</sub> :	913

**PHYSICAL DATA**

Appearance & Odor:	Liquid, Colorless & Odorless
Physical State:	Liquid
Boiling Point:	100°C
Vapour Pressure (mmHg):	NA
Freezing Point:	-4°C
Vapour Density:	NA
Specific Gravity:	1.1
Solubility:	Soluble
pH:	5.5-7.5

**FIRE AND EXPLOSION HAZARD DATA**

Flash Point:	Not Flammable
Auto ignition Temperature:	NA
Fire Extinguishing Media:	Any
Special Fire-fighting procedures:	NA
Unusual Fire and Explosion Hazards:	Nitrate may render other materials more combustible if allowed to dry out upon them.

**HEALTH HAZARD DATA**

Effects of Overexposure:	Dizziness, nausea, weakness if taken internally.
Emergency and First Aid :	Wash off affected area with water or induce vomiting if ingested.
Eyes & Skin	Wash off with large amounts of water for 15 minutes.
Ingestion/Inhalation:	Internal- induce vomiting. Consult physician.

**REACTIVITY DATA**

Stability:	Stable
Condition to avoid:	Storing near heat or incompatible chemicals
Incompatibles:	Reducing agents, B, BaS, Na acetate, Ti, S, trichloroethylene, charcoal
Hazardous decomposition products:	Oxides of nitrogen upon heating to decomposition
Hazardous polymerization:	Will not occur

**SPILL AND DISPOSAL PROCEDURES**

Steps to be taken :	Dilute with water, and cover with soda ash, mix and scoop into a beaker of water, neutralize with HCl and wash down drain with excess water.
Waste disposal procedure:	Add to a large container of water, stir in slight excess of soda ash. Let stand 24 hours. Neutralize with 6M HCl and wash down drain with excess water. Observe all federal, state, and local laws.
Ventilation:	NA
Respiratory protection:	NA
Eye protection:	Safety goggles

**STORAGE AND HANDLING PRECAUTIONS**

Storage requirements:	Store at room temperature and keep cap tightly sealed to protect product integrity.
Other precautions:	Sodium nitrate is listed in table 172.101 of Title 49 CFR.

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