

**MATERIAL SAFETY DATA SHEET**
**EC-SCS-NT1-BT  
 (Nitrate 0.1 M NaNO<sub>3</sub>)**

 Last updated on 14<sup>th</sup> October 2008

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**GENERAL INFORMATION**

PRODUCT NAME:	0.1 M Nitrate Standard
MANUFACTURE'S NAME:	Eutech Instrument PTE LTD
DISTRIBUTED BY:	Eutech Instrument PTE LTD
CHEMICAL NAME:	Sodium Nitrate in Water
CHEMICAL FAMILY:	Salt Solution

**INGREDIENTS**

CAS NO:	7647-14-5
% of : NaNO <sub>3</sub>	< 1.0 %
% of water:	> 99.0 %
OSHA/PEL:	NA
ACGIH/TLV:	NA
LD50(mg/kg) oral-rat of NaNO <sub>3</sub>	913mg/kg

**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:	1.0 (Water = 1)
Solubility:	Soluble
pH:	7.0-7.5

**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 material 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 physical

**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 in the events of a spill or discharge:	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 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:	None
Respiratory protection:	None
Eye/Skin protection:	Safety glasses

**STORAGE AND HANDLING PRECAUTIONS**

Storage requirements:	Store in 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.

**TRANSPORTATION DATA AND ADDITIONAL INFORMATION**

**Domestic (D.O.T.)**

Proper shipping name:	N/A (Not Regulated for Shipping)
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**International (I.M.O.)**

Proper shipping name:	N/A (Not Regulated for Shipping)
Marine pollutants:	Acid

**Air (I.C.A.O.)**

Proper shipping name:	N/A (Not Regulated for Shipping)
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