

**MATERIAL SAFETY DATA SHEET**
**EC-SCS-AM2-BT  
 (Ammonium Standard 1000ppm NH<sub>4</sub>Cl)**

 Last updated on 8<sup>th</sup> October 2008

**EUTECH INSTRUMENTS PTE LTD.**

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**GENERAL INFORMATION**

PRODUCT NAME:	1000ppm Ammonium Standard
MANUFACTURE'S NAME:	Eutech Instrument PTE LTD
DISTRIBUTED BY:	Eutech Instrument PTE LTD
CHEMICAL NAME:	Ammonium Chloride in Water
CHEMICAL FAMILY:	Salt Solution

**INGREDIENTS**

CAS NO:	12125-02-9
% of : NH <sub>4</sub> Cl	<1%
% of water:	>99%
OSHA/PEL:	10 mg/cm <sup>3</sup>
ACGIH/TLV:	10 mg/cm <sup>3</sup>
LD50(mg/kg) oral-rat of: NH <sub>4</sub> Cl	82500 mg/kg

**PHYSICAL AND REACTIVITY DATA**

Appearance & Odor:	colorless or white crystals
Stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
Hazardous polymerization;	Has not been reported
Incompatibilities:	Acids, alkalis, and their associated carbonates. Substance reacts with lead and silver salts to form a fulminating compound. Substance reacts with ammonium compounds, bromine pentafluoride, bromine trifluoride, hydrogen cyanide, iodine heptafluoride, nitrates, and potassium chlorate.
Condition to avoid:	Incompatible materials, excess heat
Hazardous Decomposition Products:	Irritating and toxic fumes and gases, ammonia and hydrochloric acid fumes

**FIRE AND EXPLOSION HAZARD DATA**

General Information	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Substance is noncombustible. Containers may explode in the heat of a fire. May polymerize explosively when involved in a fire
Explosion :	Not considered to be an explosion hazard.
Fire Extinguishing Media:	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. For large fires, use water spray, fog or alcohol-resistant foam. Cool containers with flooding quantities of water until well after fire is out.
Special information::	In the event of fire, wear NIOSH/MSHA approved breathing apparatus, resistant clothing, hat. Boots and gloves.

**HEALTH HAZARD DATA**

Ingestion :	May cause irritation of the digestive tract. May cause systemic toxicity with acidosis. May be harmful if swallowed.
Inhalation:	If heated, dust or fume may cause respiratory tract irritation..
Skin contact:	May cause skin irritation
Eye contact;	Causes eye irritation....

**FIRST AID MEASURES**

Inhalation :	Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Ingestion:	Induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid
Skin contact:	Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid

**DISPOSAL PROCEDURES**

Steps to be taken :	Whatever can not be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
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**STORAGE AND HANDLING PRECAUTIONS**

Storage requirements:	Store in a cool, dry, well-ventilated area away from incompatible substances. Store below 40°C..
Handling	Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**TRANSPORTATION DATA AND ADDITIONAL INFORMATION**

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

Proper shipping name:	non-regulated
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**International (I.M.O.)**

Proper shipping name:	non-regulated
Marine pollutants:	Acid

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

Proper shipping name:	non-regulated
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