

**MATERIAL SAFETY DATA SHEET**

**EC-ISA-NT1-BT**

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**GENERAL INFORMATION**

PRODUCT NAME:	Nitrate ISA 2M (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>
MANUFACTURE'S NAME:	Eutech Instrument PTE LTD
DISTRIBUTED BY:	Eutech Instrument PTE LTD
CHEMICAL NAME:	Ammonium Sulfate
CHEMICAL FAMILY:	Salt Solution
Chemical Formula:	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>
CAS NO:	7783-20-2

**PHYSICAL AND REACTIVITY DATA**

Appearance & Odor:	Liquid, Colorless & Odorless
Stability:	Stable under normal temperatures and pressures
Hazardous polymerization;	Has not been reported
Incompatibilities:	Chlorates, nitrites, alkalis, Many metals, such as iron and zinc, are attacked by ammonium sulfate in the presence of moisture..
Condition to avoid:	Dust generation, excess heat
Hazardous Decomposition Products:	Oxides of sulfur, nitrogen oxides (NO <sub>x</sub> ) and ammonia (NH <sub>3</sub> ).

**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
Explosion :	Not considered to be an explosion hazard.
Fire Extinguishing Media:	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire
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 gastrointestinal irritation with nausea, vomiting and diarrhea..
Inhalation:	May cause respiratory tract irritation. May cause respiratory difficulty and coughing. It is generally not harmful to healthy persons if inhaled, but may contribute to asthma attacks or clearance problems in persons with these pre-existing pulmonary diseases
Skin contact:	May cause skin irritation. May cause skin irritation. May cause reddening of the skin.
Eye contact;	May cause eye irritation. Causes redness and pain..

**FIRST AID MEASURES**

Inhalation :	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear
Ingestion:	Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water
Skin contact:	Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse
Eye contact:	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 tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.
Handling	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing dust. Do not load or store together with sodium nitrite. Ammonium sulfate can react with sodium nitrite at temperatures as low as room temperature producing flames or even explosions. Ammonium sulfate has a weakly acid reaction. When alkaline substances are added, ammonia is liberated.

**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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