

## MATERIAL SAFETY DATA SHEET

### Fluoride Standard 0.1M NaF (EC-SCS-FL1-BT)

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#### EUTECH INSTRUMENTS PTE LTD.

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#### GENERAL INFORMATION

Product Name:	0.1M NaF
MANUFACTURE'S NAME:	Eutech Instrument PTE LTD
DISTRIBUTED BY:	Eutech Instrument PTE LTD
CHEMICAL NAME:	Sodium Fluoride
CHEMICAL FAMILY:	Salt Solution

#### INGREDIENTS

CAS NO:	7681-49-4
% of : NaBr	0.42%
% of water:	99.58%
OSHA/PEL:	NA
ACGIH/TLV:	NA
LD50(mg/kg) oral-rat of NaF:	Na

#### PHYSICAL AND REACTIVITY DATA

Appearance & Odor:	Liquid Odorless
Stability:	Stable at room temperature
Hazardous polymerization;	Will not occur
Incompatibilities:	NA
Condition to avoid:	Incompatible material, dust generation, moisture, excess heat
Hazardous Decomposition Products:	Irritating and toxic fumes and gases, hydrogen fluoride gas, sodium oxide

## 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. Material will not burn. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Explosion :	Not considered to be an explosion hazard.
Fire Extinguishing Media:	Use extinguishing media most appropriate for the surrounding fire. Do Not get water inside containers. Use water spray, dry chemical, carbon dioxide, or appropriate foam.
Special information::	In the event of fire, wear NIOSH/MSHA approved breathing apparatus, resistant clothing, hat. Boots and gloves.

## HEALTH HAZARD DATA

Ingestion :	Ingestion of large amounts of fluoride may cause salivation, nausea, vomiting, abdominal pain, fever, labored breathing. Exposure to fluoride compounds can result in systemic toxic effects on the heart, liver, and kidneys. It may also deplete calcium levels in the body digestive tract and possible burns. May cause respiratory paralysis and cardiac arrest.
Inhalation:	May cause server irritation of the respiratory tract with possible burns. Aspiration may leads to pulmonary edema. Prolonged exposure to dusts, vapors, or mist may result in the perforation of the nasal septum. May cause systemic effects.
Skin contact:	Contact with skin causes irritation and possible burns, especially if the skin is wet or moist. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.
Eye contact;	Causes eye irritation and possible burns. May cause chemical conjunctivitis and corneal deamage

## FIRST AID MEASURES

Inhalation :	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.
Ingestion:	Do not 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 immediately.
Skin contact:	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.
Eye contact:	Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 mintues).

## 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:	Keep container closed when not in use. Store in tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from strong acids. Store protected from moisture. Store away from alkalies.
Handling	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Do not allow contact with water. Discard contaminated shoes. Keep from contact with moist air and team

## 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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