

MATERIAL SAFETY DATA SHEET
EC-SCS-CO1-BT
(Carbon Dioxide Standard 0.1M NaHCO₃)

 Last updated on 10th October 2008

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GENERAL INFORMATION

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

INGREDIENTS

CAS NO:	144-55-8
% of : NaHCO ₃	<1.0%
% of water:	>99.0%
OSHA/PEL:	0.2 mg/cm ³
ACGIH/TLV:	0.2 mg/cm ³
LD50(mg/kg) oral-rat of NaHCO ₃	3360 mg/kg

PHYSICAL DATA

Appearance & Odor:	Liquid, Colorless & Odorless
Physical State:	Liquid
Boiling Point:	100°C
Vapour Pressure (mmHg):	NA
Freezing Point:	NA
Vapour Density:	NA
Specific Gravity:	1.01
Solubility:	NA
pH:	7.0

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not consider to be a fire hazard
Auto ignition Temperature:	NA
Fire Extinguishing Media:	Use any means suitable for extinguishing surrounding fire
Special Fire-fighting procedures:	Used protective clothing and breathing equipment appropriate for surrounding fire
Unusual Fire and Explosion Hazards:	Not consider to be an explosion hazard

HEALTH HAZARD DATA

Effects of Overexposure:	NA
Skin :	Not expected to require first aid measures
Eyes	Wash thoroughly with running water. Get medical advise if irritation develops
Ingestion/Inhalation:	If ingestion, give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advise If inhalation, remove to fresh air. Get medical attention for any breathing difficulty.

REACTIVITY DATA

Stability:	Stable under ordinary conditions of use and storage
Condition to avoid:	Heat, moisture, incompatibles
Incompatibles:	Reacts with acids to form carbon dioxide. Dangerous reaction with monoammonium phosphate or a sodium-potassium alloy
Hazardous Decomposition Products	Gaseous carbon dioxide
Hazardous polymerization:	Will not occur

SPILL AND DISPOSAL PROCEDURES

Steps to be taken in the events of a spill or discharge:	Wash away with water
Disposal procedure:	Dispose in accordance with all applicable federal, state and local environmental regulations
Ventilation:	None
Respiratory protection:	None
Eye/Skin protection:	Safety glasses / Lab coat

STORAGE AND HANDLING PRECAUTIONS

Storage requirements:	Keep in tightly closed container, stored in cool, dry ventilated area. Protect against physical damage. .
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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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