

MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME:
E S V AQUARIUM PRODUCTS INC.
210A ENGINEERS DRIVE
HICKSVILLE, NY 11801

24 HOUR EMERGENCY PHONE: 800-424-9300
E S V AQUARIUM PRODUCTS, INC.
INFORMATION PHONE: 516-605-0531

DATE OF PREPARATION: 4/4/2011

SECTION 1

PRODUCT IDENTIFICATION

PRODUCT NAME: - Magnesium Sulfate Component of B-Ionic Seawater System

PRODUCT NUMBER: 230 / 231 / 232

PRODUCT CLASS: Aquarium Additive

CHEMICAL NAME: Magnesium Sulfate Heptahydrate

FORMULA: $MgSO_4 \cdot 7H_2O$

CAS No: 10034-99-8 *

* Under the Toxic Substances Control Act (TSCA), hydrates are considered as mixtures of their anhydrous salt and water. Accordingly, the CAS Numbers 7487-88-9, 7732-18-5 are used for purposes of TSCA

SECTION 2

HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT: NONE

HAZARD DATE: NONE

SECTION 3

PHYSICAL DATA

Boiling Point 760 MM HG: DOES NOT BOIL

Specific Gravity (H₂O.1): 1.68

Vapor Density (Air.1): N/A

% Volatiles by Volume: N/A

Appearance & Odor: SMALL COLORLESS CRYSTALS, ODORLESS

Melting Point: °C 70D – LOSES WATER

Vapor Pressure: N/A

Solubility in H₂O by Weight: APPRECIABLE

Evaporation Rate (Butyl Acetate): N/A

Magnesium Sulfate Component Of B-Ionic Seawater System

SECTION 4**FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Test Method): NON-FLAMMABLE MATERIAL

Autoignition Temperature: N/A

Flammable Limits In Air, % by Volume: N/A

Extinguishing Media: N/A

Special Fire Fighting Procedures: PROPER BREATHING EQUIPMENT

Unusual Fire & Explosion Hazard: EXTREMELY HIGH TEMPERATURES MAY PRODUCE SULFUR TRIOXIDE & SULFUR DIOXIDE

SECTION 5**HEALTH HAZARD DATA**

NO EXPOSURE LIMITS HAVE BEEN ESTABLISHED BY OSHA

Routes of Exposure:

Inhalation: POSSIBLE DUST IRRITATION

Skin Contact: NONE Skin Absorption: NONE

Eye Contact: POSSIBLE DUST IRRITATION

Ingestion: MAY CAUSE BOWEL MOVEMENT IF SWALLOWED, CONSULT PHYSICIAN

NOTE TO PHYSICIAN: Magnesium Sulfate/Heptahydrate (Epsom Salt), is an inorganic chemical having no properties which are deleterious to the skin of humans, internally or externally. For several hundred years it has been widely used as a cathartic and analgesic in aqueous solution. It is in the US Pharmacopia XXII as well as the Food Chemical Codex.

Effects of Overexposure:

Acute Overexposure: MAY CAUSE EXCESSIVE BOWEL MOVEMENT IF SWALLOWED, ABDOMINAL CRAMPS.

Chronic Overexposure: IF OVER 10 GRAMS SWALLOWED, CONSULT PHYSICIAN

Emergency & First Aid Procedures

Eyes: WASH WITH WARM WATER (H₂O)

Skin: N/A

Inhalation: LEAVE DUST AREA FOR FRESH AIR

Ingestion: CONSULT PHYSICIAN. IF LARGE AMOUNTS ARE INGESTED, INDUCE -- VOMITING.

SECTION 6**REACTIVITY DATA**

Conditions Contributing to Instability: STABLE

Incompatibility: NONE

Hazardous: EXTREMELY HIGH TEMPERATURES, MAY PRODUCE SULFUR TRIOXIDE & SULFUR DIOXIDE.

Conditions Contributing to Hazardous Polymerization: WILL NOT OCCUR

SECTION 7**SPILLS OR LEAKS PROCEDURES**

Not A RCRA Hazardous Waste

Steps to be Taken if Material is Spilled Released: NO SPECIAL PRECAUTIONS NECESSARY

Waste Disposal Method: DILUTE WITH WATER (H2O) OR SWEEP & DISPOSE OF PROPERLY.

SECTION 8**SPECIAL PROTECTION & PRECAUTIONS**

Ventilation Requirements: APPROPRIATE DUST CONTROL EQUIPMENT REQUIRED

Specific Personal Protection Equip.: FOR OPERATORS, RESPIRATOR COULD BE WORN IN ABNORMAL DUST CONDITIONS

Eye: NORMAL EYE PROTECTION FOR DUST

Gloves: NONE

Other Clothing & Equipment: NONE

SECTION 9**OTHER INFORMATION**

This information is provided in good faith and is correct to the best of E S V Aquarium Products Inc.'s knowledge as of the date hereof and is designed to assist our customers; however, E S V Aquarium Products Inc. makes no representation as to its completeness or accuracy. Any use which E S V Aquarium Products Inc.'s customers or third parties make of this information, or any reliance on, or decision made based upon it, are the responsibility of such customer or third party. E S V Aquarium Products Inc. disclaims responsibility for damages, or liability, of any kind resulting from the use of this information. THERE ARE NO WARRANTIES OR REPRESENTATION, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS INFORMATION OR TO THE PRODUCT IT DESCRIBES. IN NO EVENT SHALL E S V AQUARIUM PRODUCTS INC. BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.