

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Sodium Sulfide Flakes

SO450-00

SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

MANUFACTURER: Sanimax
PREPARED BY: Production Department
VERSION DATE: 14-Jan-15
TELEPHONE NO.: (519) 451-1614
EMERGENCY PHONE NO.: (613) 996-6666
CHEMICAL FAMILY: Not Available **CHEMICAL FORMULA:** Not Applicable
MOLECULAR WEIGHT: Not Applicable **MATERIAL USE:** Please Refer to technical literature
SYNONYMS:

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Ingredients | Conc. Approx. % | C.A.S. # | LD/50 (RTE/SPEC) | LC/50 (RTE/SPEC) | TLV |
|-------------------------|-----------------|------------|------------------|------------------|-------|
| Sodium Sulphide Hydrate | 60-100 | 27610-45-3 | N.Av. | N.Av. | N.Av. |

SECTION 03: HAZARD IDENTIFICATION

ROUTE OF ENTRY

Eyes: Corrosive to the eyes. Symptoms of exposure may include redness, tearing, pain, burning and blurred vision. Eye exposure may cause severe and permanent eye injury (blindness).

Skin: Severely irritating and corrosive to the skin. May cause allergic skin reactions.

Inhalation: Irritating to the respiratory system. Symptoms of exposure may include coughing, sore throat and shortness of breath. Exposure can cause pulmonary oedema. Effects may be delayed.

Ingestion: May be fatal if swallowed. May cause burns to the mouth and throat. Symptoms of exposure may include nausea, vomiting, diarrhea and abdominal pain.

SECTION 04: FIRSTAID

Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention.

Eye Contact: IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. Seek immediate medical attention.

Inhalation, Acute: Allow the victim to rest in a well ventilated area. If breathing is difficult, administer oxygen. If the victim is not breathing, perform artificial respiration. Seek immediate medical attention.

Ingestion: DO NOT induce vomiting. If the victim is conscious, give a little water or milk. NEVER give an unconscious person anything to ingest. Seek immediate medical attention.

Notes to physician: Treat symptomatically and supportively. Amyl nitrite although controversial, has been recommended as antidote for hydrogen sulfide exposure.

SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

| | |
|---|--|
| FLAMMABLE? | No |
| IF YES, UNDER WHICH CONDITIONS? | |
| FLASH POINT (TCC) (C): | Not Available |
| FLAMMABLE LIMITS: | LEL(% BY VOL.): Not Available UEL(% BY VOL.): Not Available |
| AUTO IGNITION TEMPERATURE (C) | Not Available |
| EXTINGUISHING MEDIA | Use DRY chemicals, CO2, water fog or foam. Use water spray to cool fire exposed containers. Wear NIOSH approved self-contained breathing apparatus (SCBA) when either in confined areas or exposed to combustion products. |
| SPECIAL PROCEDURES: | |
| HAZARDOUS COMBUSTION PRODUCTS: | Contact with acids or excessive heat will generate poisonous, flammable hydrogen sulfide gas. Thermal decomposition generates sulfur dioxide. |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | Dust can combine with air to form an explosive mixture |
| SENSITIVITY TO STATIC DISCHARGE | Not Available |
| SENSITIVITY TO MECHANICAL IMPACT: | Not Available |

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Use appropriate tools to put the spilled material in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to federal, provincial and municipal environmental control regulations.

SECTION 07: HANDLING AND STORAGE**Handling Procedures and Storage Requirements**

Follow routine safe handling procedures. Avoid breathing dust or vapour. Keep container tightly closed. Keep in a cool, dry and well ventilated place. Avoid dust generation. Store away from incompatible materials. Avoid all possible sources of ignition. Keep away from heat and direct sunlight. Empty containers retain product residue and can be hazardous.

SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

| | |
|----------------------------|---|
| GLOVES/TYPE: | Chemical resistant gloves. Full suit. Chemical resistant boots. |
| RESPIRATOR/TYPE: | If user operations generate dust, fume, mist or if workplace containment level is above the threshold limit, ensure to use a MSHA/NIOSH approved respirator or equivalent. |
| EYE/TYPE: | Safety glasses. |
| OTHER/TYPE: | Not Available |
| ENGINEERING CONTROL | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of dust and vapors below their respective threshold limit value. Ensure that eye stations and safety showers are proximal to the work station location. |

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------------------------|----------------------|--------------------------------|--------|
| PHYSICAL STATE/APPEARANCE: | Solid Flakes | ODOUR THRESHOLD: | N. Av. |
| ODOUR: | Sulphur Like, strong | VAPOUR DENSITY (Air=1): | N. Av. |
| VAPOUR PRESSURE (mm Hg @ 20C): | N. Av. | SPECIFIC GRAVITY: | 1.427 |
| EVAPORATION RATE (Ether = 1): | N. Av. | FREEZING POINT (C) | 50 |
| BOILING POINT (C): | N. Av. | % VOLATILE (WT): | |
| Ph (% SOLUTION): | | | |
| SOLUBILITY IN WATER (% W/W) | in water 18g/100mL | | |

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| CHEMICALLY STABLE? | Moderately Stable |
| IF NO, UNDER WHICH CONDITIONS? | Deliquescent solid. Aqueous solutions may slowly give off hydrogen sulfide gas. Avoid elevated temperatures. |
| INCOMPATIBILITY WITH OTHER SUBSTANCES | Yes |
| IF YES, WITH WHICH ONES: | Avoid water, heat and ignition sources. Reacts with acids, liberating extremely flammable and toxic hydrogen sulfide. Can react violently with oxidizing agents and form sulphur dioxide. Reacts explosively with diazonium salts and N,N-dichloromethyl amine. Reaction with carbon releases heat. |
| SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS | N. Av. |

HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur oxides and sodium oxide. Contact with water and under fire conditions can release hydrogen sulfide.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL Not available
LC 50 OF MATERIAL, SPECIES AND ROUTE Not available
LD 50 OF MATERIAL, SPECIES AND ROUTE Not available
CARCINOGENICITY OF MATERIAL Not listed
REPRODUCTIVE EFFECTS: Not available
IRRITANCY OF MATERIAL Severly Irritating
SENSITIZING CAPABILITY OF MATERIAL Not available
SYNERGISTIC MATERIALS Not available

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY Considered hazardous for the environment. Avoid entry of product into the sewage system or water streams.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Waste must be disposed of in accordance with federal, provincial and municipal environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

TDG CLASSIFICATION Class 8, SODIUM SULFIDE, HYDRATED
UN NUMBER: 1849
PACKING GROUP: II
Special Provisions for Transport

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION E, D2
CORROSIVE AND SEVERELY IRRITATING TO THE EYES, SKIN, RESPIRATORY AND GASTROINTESTINAL TRACT. HARMFUL IF INHALED OR SWALLOWED.

SECTION 16: OTHER INFORMATION

ABBREVIATIONS USED: N.Av. = Not Available
N.App. / N.Ap. = Not Applicable

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SOURCES: Supplier MSDS

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LAST PAGE

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