

MC-1840

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Family / Chemical Name	Mixture
CAS No.	Mixture
Trade Name	MC-1840
Product Code	None

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Precipitant
Uses Advised Against	None
Company Identification	Meitler Consulting, Inc 16979 Chieftain Rd PO Box 444 Tonganoxie, KS 66086 USA

Telephone	(913) 422-9339
Fax	(913) 422-9344
E-mail	

Emergency telephone number

Emergency Phone No.	Transportation Emergency: CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Skin Irrit. 1B; Eye Dam. 1; Acute Toxicity (Oral = 3/ Inhalation = 4)

Label elements

Hazard Symbol



Signal Word(s)

DANGER

Hazard Statement(s)

Causes serious eye damage .Causes severe skin burns and eye damage . May be corrosive to metals . Very toxic to aquatic life
Toxic if swallowed. Harmful if inhaled

Precautionary Statement(s)

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

IF ON SKIN: Wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Seek medical treatment.

Other hazards

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt.	CAS No.
Sodium Hydrosulfide Solution	Trade Secret	16721-80-5
Water	Trade Secret	7732-18-5

Additional Information - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.:

SECTION 4: FIRST AID MEASURES**Description of first aid measures**

Inhalation

Call a Poison Center or doctor/physician if exposed or you feel unwell. Remove person from source of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration using a pocket mask or resuscitation device. Direct mouth contact should be avoided if possible due to the potential for residual corrosive liquid around the person's mouth and airways.

Skin Contact

Immediately remove contaminated clothing and shoes. In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention immediately. Person may be kept in a dark room with ice compresses applied to eyes and forehead until medical treatment is available. Speed in treatment may prevent permanent eye damage.

Ingestion

Call a physician or a poison control center immediately. If vomiting occurs, keep head low so that stomach contents do not enter the lungs. If conscious, rinse the mouth out several times with cold water and spit out. Give one or two cups of water or milk. This may be followed by gastric antacids, such as milk of magnesia or aluminum hydroxide. Stop if victim becomes nauseated. **DO NOT INDUCE VOMITING** unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person. If the victim stops breathing: administer artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms and effects, both acute and delayed

Some medical protocols prescribe the use of amyl nitrite as part of first aid treatment. Do not use amyl nitrite treatment if oxygen is not available. Amyl nitrite is only a useful adjunct during the first 10 to 15 minutes following exposure. Once breathing is restored, provide a high flow of oxygen and amyl nitrite if appropriate. Symptoms of pulmonary edema may be delayed for 24 to 72 hours after initial exposure. Therefore, hospitalization and medical observation is advisable during this period.

Indication of any immediate medical attention and

Treat symptomatically

special treatment needed

SECTION 5: FIRE-FIGHTING MEASURES**Extinguishing Media**

-Suitable Extinguishing Media

Non-combustible / Non-flammable. As appropriate for surrounding fire. Lower Explosive Limit: 4% (hydrogen sulfide) Upper Explosive Limit: 46% (hydrogen sulfide)

-Unsuitable Extinguishing Media

As appropriate for surrounding fire.

Special hazards arising from the substance or mixture

Product solution is non-flammable. However, trace levels of flammable hydrogen sulfide gas are continuously released in air, especially when product is heated or exposed to acids. Gas may form explosive mixtures in air. Do not cut open or apply heat sources to containers. Thermal decomposition ("burning") may evolve toxic and irritating combustion by-products - hydrogen sulfide.

Advice for fire-fighters

Avoid breathing vapors, gases and fumes. Do not touch, handle or walk-through spilled liquid. Firefighters should wear a positive pressure-demand self-contained breathing apparatus (SCBA) and full protective gear. Containers may build up pressure if exposed to radiant heat. Water can be used to cool and protect exposed material. Do not allow runoff to enter sewers or waterways. Move containers away from fire area if safe to do so.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Put on protective equipment before entering danger area. Wear protective gloves/protective clothing/eye protection/face protection.

Environmental precautions

Prevent substance entering sewers.

Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

Reference to other sections

None

Additional Information

None

SECTION 7: HANDLING AND STORAGE**Precautions for safe handling**

Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing vapour, gas or mist. Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities

-Storage temperature

Keep away from heat or flame. Store in a cool, dry, well-ventilated area out of direct sunlight (<104 deg F, 40 deg C). Keep container tightly closed. Keep away from children.

-Incompatible materials

Not compatible with copper, zinc, aluminum or their alloys (e.g., brass, bronze, galvanized metals, etc.). Corrosive to steel above 150° F (65.5° C).

Specific end use(s)

Precipitant

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Exposure Limits****Recommended monitoring method**

Real-time (electrochemical sensors)

Exposure controls

Appropriate engineering controls

Use outdoors or indoors only with adequate general and local exhaust ventilation. Maintain exposures to hydrogen sulfide below occupational exposure limits. The use of hydrogen sulfide air monitoring detectors with alarms is recommended for poorly ventilated areas and confined spaces.

Personal protection equipment

Eye/face protection



At a minimum, chemical splash goggles or face shield over safety glasses or goggles should be worn at all times when handling. A full face piece should be worn with SCBA or air-line respirator.

Skin protection (Hand protection/ Other)



The use of chemical-resistant gloves made of neoprene rubber are recommended as minimum industrial skin protection when handling product or performing spill clean-up. Chemical resistant apron, and/or suit and boots should be worn to prevent skin contact. Chemical protective clothing constructed of DuPont Tychem Responder or equivalent material may be used for spill clean-up.

Respiratory protection



Engineering controls should be implemented preferentially to reduce exposures. If working near open container, storage vessel opening or open tank truck dome cover, wear self-contained breathing apparatus, or positive pressure demand air-line respirator if there is a potential for exposure. Air-purifying (cartridge) respirators should not be used, except for escape purposes, due to the possible presence of hydrogen sulfide.

Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

Collect all precipitate. Disposal should be in accordance with local, state or national legislation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Appearance	Liquid
Color	Dark Amber to Green
Odor	Slight Sulfur
Odor Threshold (ppm)	Not available
pH	12.0 - 12.7
Boiling point/boiling range (°C):	>212 °F
Flash Point (°C)	Non-combustible / Non-flammable
Evaporation Rate	1.0
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	Not applicable
Vapor pressure (Pascal)	N/A
Vapor Density (Air=1)	Not available
Specific Gravity	1.080 - 1.110
Solubility (Water)	Complete
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Non-combustible / Non-flammable as supplied
Decomposition Temperature (°C)	Not available
Kinematic Viscosity	Not available
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing
Other information	Not available

Special precautions for user

DO NOT STORE NEAR ACID

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not established.

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
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SARA 311/312 - Hazard Categories:

 Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None	----	----

SECTION 16: OTHER INFORMATION

HMIS RATINGS: Health=2, Flammability=1, Reactivity=2

HMIS HAZARD INDEX: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

The following sections contain revisions or new statements:

Date of preparation: February 3, 2020

Additional Information: None

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