MC-1150

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-1150
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 Road Tonganoxie, KS 66086 USA
Telephone	(913) 422-9339
Fax	(913) 845-2950
E-mail	Info$

Emergency telephone number

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

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) — Skin Corr. 1B; Eye Dam. 1; Met. Corr. 1

Label elements

Hazard Symbol

Signal Word(s): **DANGER**

Hazard Statement(s):

Causes severe skin burns and eye damage.

May be corrosive to metals.

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

Contact with acids liberates very toxic gas. Toxic to aquatic life.

Additional Information

Warning - this preparation contains a substance not yet tested completely. (>10%)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt.	CAS No.
Proprietary hydropolysulfide, carbonothioylbis-, disodium salt solution	Trade Secret	Trade Secret
Sodium hydrosulfide	20 - 25	16721-80-5
Other proprietary ingredients / components	Trade Secret	Trade Secret

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.:

- Contact with acids liberates very toxic gas.: Hydrogen sulfide (H_2S)

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is laboured, administer oxygen. If symptoms occur obtain medical attention.
Skin Contact	Wash affected skin with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Ingestion	If ingested, rinse mouth. Do not induce vomiting. Seek medical treatment.
Most important symptoms and effects, both acute and delayed	None anticipated
Indication of any immediate medical attention and special treatment needed	Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Non-combustible / Non-flammable. As appropriate for surrounding fire.
-Unsuitable Extinguishing Media	As appropriate for surrounding fire.
Special hazards arising from the substance or mixture	None known.
Advice for fire-fighters	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

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. When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

-Storage temperature	No special measures are required.
-Incompatible materials	Contact with acids liberates very toxic gas.

Specific end use(s) Precipitant

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Contact with acids liberates very toxic gas.: Hydrogen sulfide (H_2S)

SUBSTANCE.	CAS No.	(8hr TWA) PEL (OSHA)	(8hr TWA) TLV (ACGIH)	STEL PEL (OSHA)	STEL TLV (ACGIH)	Note:
Hydrogen sulfide (H_2S)	7783-06-4	----	1 ppm	20 ppm (Ceiling)*	5 ppm	50 ppm (Peak) - 10 min.^

^ once, only if no other meas. exp. occurs

Recommended monitoring method Real-time (electrochemical sensors)

Exposure controls

Appropriate engineering controls

Ensure that the eye flushing systems and safety showers are located close to the working place.

Personal protection equipment

Eye/face protection

The following to be used as necessary: Goggles giving complete protection to eyes. Full face shield.

Skin protection (Hand protection/ Other)

The following to be used as necessary:Gloves (Neoprene or Natural rubber). Chemical protection suit. Wear safety or chemical resistant shoes or boots. Check with protective equipment manufacturer's data.

Respiratory protection

Normally no personal respiratory protection is necessary.

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.	Light Red
Odor	Sulfur-like
Odor Threshold (ppm)	Not available
pH (Value)	12.0 - 12.5
Melting Point (°C) / Freezing Point (°C)	ca. 0 (32 °F)
Boiling point/boiling range (°C):	ca.100 (212 °F)
Flash Point (°C)	Non-combustible / Non-flammable
Evaporation Rate	Similar to Water
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	Not applicable
Vapour pressure (Pascal)	Similar to Water
Vapour Density (Air=1)	Similar to Water
Density (g/ml)	1.125 - 1.150
Solubility (Water)	Miscible
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Non-combustible / Non-flammable
Decomposition Temperature (°C)	Not available
Kinematic Viscosity	Similar to Water
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	Contact with acids liberates very toxic gas.
Conditions to avoid	Incompatible materials
Incompatible materials	Acids
Hazardous decomposition product(s)	Hydrogen sulfide gas

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Skin Contact**,** Eye Contact

Acute toxicity
Oral: LD50 - Not determined
Dermal: LD50 - Not determined

Irritation/Corrosivity Causes severe skin burns and eye damage.
Sensitization No information available
Repeated dose toxicity No information available

Carcinogenicity No data. It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity No information available
Toxicity for reproduction No information available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Short term	LC50 (48 hour) = 56 mg/L (*Ceriodaphnia dubia;* water flea) LC50 (48 hour) = 55.4 mg/L (*Daphnia mangna*; water flea) LC50 (96 hour) = 15.8 mg/L (*Pimephales promelas*; fathead minnow)
Long Term	Not available
Persistence and degradability	Not available
Bioaccumulative potential	The product has low potential for bioaccumulation.
Mobility in soil	Not available
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods — Disposal should be in accordance with local, state or national legislation.Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	UN 3266	UN 3266	UN 3266
Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s. (Carbonothioylbishydropolysulfide disodium salt and sodium hydrosulfide)		
Transport hazard class(es)	8	8	8
Packing group	II	II	II
Hazard label(s)	Corrosive	Corrosive	Corrosive
Environmental hazards	Yes *	No	No
Special precautions for user	None assigned	None assigned	None assigned

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

*****Contains Sodium Hydrosulfide which has a Reportable Quantity (RQ) of 5,000 lbs. The proper shipping name for containers exceeding 2,000 gallons must include the “RQ” designation.

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)
Sodium hydrdosulfide	16721-80-5	20 - 25	5000

SARA 311/312 - Hazard Categories: Refer to SECTION 2 - HAZARDS IDENTIFICATION

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

The following sections contain revisions or new statements: 1-16.

Date of preparation: January 16, 2018

Additional Information: None

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