

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 02/01/2015 Supersedes: 11/16/2010

SECTION 1: Identification of the substance/mixture and of the company/undertaking

: Mixture

1.1. Product identifier

Trade name Product form : FREMONT OXY 4523 Oxygen Scavenger Treatment

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

Use of the substance/mixture : Boiler water oxygen scavenger

1.3. Details of the supplier of the safety data sheet

FREMONT INDUSTRIES, INC. 4400 Valley Industrial Blvd. N. P.O. Box 67 Shakopee, MN 55379-0067

1.4. Emergency telephone number

Emergency number

: (952) 445-4121 CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Corr. 1A H314

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)

Signal word (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US)



: Danger

- : H314 Causes severe skin burns and eye damage
- : P260 Do not breathe mist
 - P264 Wash skin thoroughly after handling
 - P280 Wear eye protection, protective gloves

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

- P310 Immediately call a POISON CENTER or doctor/physician
- P321 Specific treatment (see first aid instructions on this label)
- P363 Wash contaminated clothing before reuse
- P405 Store locked up
- P501 Dispose of contents/container to licensed waste handling facility

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

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1.1. Substance Nat applicable Number of the substance of the substan	Prepared according to Federal Register / Vol. 77, No. 58 / SECTION 3: Composition/information	•••			
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		: Contain any spills wit	h dikes or absorbents to prever	nt migration and entry in	to sewers or
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. a suitable container for disposal in accordance with the waste regulations (see Section 13	Methods for cleaning up	: Soak up spills with in			

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6.4. Reference to other sections

No additional information available

7.1.	Precautions for safe handling]
Precau	itions for safe handling	: Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mists. Keep away from sources of ignition - No smoking.
7.2.	Conditions for safe storage,	including any incompatibilities
Storag	e conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use.
Incom	patible materials	: Strong oxidizers. Strong acids.
7.3.	Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium hydroxide (1310-58-3)	
ACGIH Ceiling (mg/m ³)	2 mg/m ³
OSHA PEL (Ceiling) (mg/m ³)	2 mg/m ³ vacated

8.2. Exposure controls Appropriate engineering controls

Personal protective equipment

Ensura	atempahe	ventilation	asnacially i	n confined area	c

: Gloves. Protective goggles. Face shield. Protective clothing. Respiratory protection of the dependent type.



Hand protection	: Protective gloves made of rubber.
Eye protection	 Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.
Skin and body protection	: Corrosionproof clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Brown.
Odor	: Slight woody odor.
Odor Threshold	: No data available
pH	: 11 - 12
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.21
Solubility	: Complete solubility in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available

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Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Sparks. Open flame. Heat.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents. Soft metals (aluminum, copper, brass).

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon oxides (CO, CO2). Sulfur oxides. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

Potassium hydroxide (1310-58-3)		
LD50 oral rat	214 mg/kg	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
	pH: 11 - 12	
Serious eye damage/irritation	: Not classified	
	pH: 11 - 12	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	
Symptoms/injuries after inhalation	: May cause headache, nausea and irritation of respiratory tract.	
Symptoms/injuries after skin contact	: Highly corrosive to skin.	
Symptoms/injuries after eye contact	: Causes serious eye burns.	
Symptoms/injuries after ingestion	: Severe irritation or burns to the mouth, throat, esophagus, and stomach. Possible esophageal perforation.	
Chronic symptoms	: No data available.	

SECTION 12: Ecological information

12.1. Toxicity Ecology - general

: No information available

12.2. Persistence and degradability

FREMONT OXY 4523 Oxygen Scavenger Treatment	
Persistence and degradability No information available.	
12.3. Bioaccumulative potential	
EPEMONT OXY 4523 Oxygen Scavenger Treatment	

	remont ox f 4525 oxygen Scavenger Treatment	
	Bioaccumulative potential	No information available.
-		

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FREMONT OXY 4523 Oxygen Scavenger Treatment Ecology - soil No data available.		
Ecology - soil	No data available.	
12.5. Other adverse effects		
Other adverse effects	: No data available.	
SECTION 13: Disposal consideration	S	
13.1. Waste treatment methods		
Waste treatment methods	: Do not discharge to public wastewater systems without permit of pollution control authorities. N discharge to surface waters is allowed without an NPDES permit.	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not allow the produ to be released into the environment.	
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IATA 14.1. UN number		
Transport document description	: UN1760, CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE), 8, PGII	
UN-No.(DOT)	: 1760	
DOT NA no.	UN1769	
14.2. UN proper shipping name		
DOT Proper Shipping Name	: Corrosive liquids, n.o.s.	
	(Potassium hydroxide)	
Department of Transportation (DOT) Hazard Classes	: 8 - Class 8 - Corrosive material 49 CFR 173.136	
Hazard labels (DOT)	: 8 - Corrosive substances	
Packing group (DOT)	: II - Medium Danger	
14.3. Additional information		
Other information	: No supplementary information available.	
Overland transport No additional information available		
Transport by sea		
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.	
DOT Vessel Stowage Other	: 52 - Stow "separated from" acids	
Air transport		
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L	

SECTION 15: Regulatory information

15.1. US Federal regulations		
FREMONT OXY 4523 Oxygen Scavenger Treatment		
All chemical substances in this product are listed	in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory	
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard		
Potassium hydroxide (1310-58-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)		
RQ (Reportable quantity, section 304 of EPA's 1000 lb List of Lists) :		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	

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15.2. International regulations

CANADA

Potassium hydroxide (1310-58-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

No additional information available

15.2.2. National regulations

Potassium hydroxide (1310-58-3) Listed on the AICS (the Australian Inventory of Chemical Substances) Listed on Inventory of Existing Chemical Substances (IECSC) Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory. Listed on KECI (Chemical Inventory of Korea)

15.3. US State regulations

Potassium hydroxide (1310-58-3)	
U.S Massachusetts - Right To Know List	
U.S New Jersey - Right to Know Hazardous Substance List	
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List	

SECTION 16: Other information

Indication of changes	 Revision – September 2013 - New SDS Created. This sheet has been revised completely (changes were not marked). 	
Other information	: Author: AM.	
NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	

HMIS III Rating	
Health	: 3
Flammability	: 0
Physical	: 0
Personal Protection	:

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