

DEOXIDIZER 23

1 IDENTIFICATION

Product Code :2552005

Recommended use of the chemical and restrictions on use industrial applications

Hubbard-Hall Inc.

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CHEMTREC: 1 (800) 424-9300

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2 HAZARDS IDENTIFICATION

Signal Word: DANGER

Hazard Category: Acute Toxicity-Inhalation Hazard Category 2

Skin Corrosion/Irritation Hazard Category 1A

Eye Damage/Irritation Hazard Category 1

Acute Aquatic Toxicity-Category 3

Chronic Aquatic Toxicity- Category 3

Carcinogenicity Hazard Category 1A

Specific Target Organ Toxicity (Repeated Exposure) Hazard Category 2

Corrosive to Metals Hazard Category 1

Acute Toxicity-Oral Hazard Category 3

Hazard Statements: Fatal if inhaled.

May cause damage to teeth through prolonged or repeated exposure via inhalation.

Causes severe skin burns and eye damage.

May cause cancer.

Harmful to aquatic life with long lasting effects

May be corrosive to metals.

Toxic if swallowed.

Prevention: Do not breathe dust, fumes, gas, mist, vapors or spray.

Use only outdoors or in well ventilated area.

In case of inadequate ventilation wear respiratory protection.

Wash skin thoroughly after handling.

Wear protective gloves, chemical protective clothing, eye protective goggles and face shield for face protection

Obtain special instruction before use.

Do not handle until all safety precautions have been read and understood.

Keep only in original container.

Avoid releases to the environment

Do not eat, drink or smoke when using this product.

Response: If inhaled: Remove person to fresh air and keep comfortable for breathing.

Immediately call poison center or doctor and explain the type of exposure to the chemical(s) and provide the

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

Specific treatment - refer to poison center or doctor for advice.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

If exposed or concerned: Get medical advice/attention.

Absorb spillage to prevent material damage.

Storage: Store locked up.

Store in well ventilated place. Keep container tightly closed.

Store in corrosive resistant high density polyethylene container.

Disposal: Dispose of contents/container in accordance with local, regional, national, or international regulations.

3 COMPOSITION INFORMATION

Suitable and Unsuitable extinguishing media: Avoid contact with water. Use foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical: Sulfur dioxide may be produced.

Special protective equipment and precautions for firefighter: Fire fighters should enter area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms, and waist, should be worn. No skin surfaces should be exposed.

6 ACCIDENTAL RELEASE MEASURES

Methods and Materials for containment & cleaning up: If trained in accordance 29 CFR 1910.120, leaks should be stopped. Spills should be contained and cleaned immediately. Persons performing clean up work should wear adequate personal protective equipment and clothing. Spills and releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.

Neutralize spill with soda ash or lime under good ventilation. For an interior (inside a closed space) spill be aware that the use of Soda Ash, Lime will evolve heat and carbon dioxide thus the need for ventilation.

Avoid release to the environment.

7 HANDLING AND STORAGE

Precautions for safe handling: Use ventilation sufficient to keep personal exposure below the OSHA Permissible Exposure Limits (PEL) and or the ACGIH Threshold Limit Value (TLV) Time Weighted Average (TWA) exposure limits.
Wear rubber protective gloves, chemical protective clothing, eye protective goggles and face shield for face protection.
Avoid breathing dust, fumes, gas, mist, vapors and sprays.
Eating, drinking and smoking in the work area is prohibited.
Do not get in eyes, or on skin, or on clothing.
Keep only in original container .
Keep container tightly closed.

Conditions for safe storage, inc any incompatibilities: Store in corrosive resistant container.

Store locked up and away from incompatible chemicals.

Store in cool dry place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std.	TWA -8hrs	STEL - 15 min.
Sulfuric Acid	ACGIH	0.2 mg/m3	
Nitric Acid	ACGIH	2 ppm	-
Ferric Sulfate	ACGIH	1 mg/m3 as Fe	-
Fluorosilicic Acid	not established		

ACGIH - American Control of Governmental Hygenists
OSHA - Occupational Safety and Health Administration

Ventilation: Use local exhaust to keep personal exposures below the OSHA Permissible Exposure Limit (s) (PEL) or the ACGIH threshold Limit Values (TLV)Time Weight Average (TWA).

Respiratory Protection: A respiratory protection program that meets OSHA 29 CFR 1910.134 and

Inhalation: Sulfuric Acid-LC50-(Rat)-347 ppm-1 h
 Inhalation: Nitric Acid-LC50-30 min,-260 mg/m3(rat), LD50, 4 h-1302 mg/m3 (rat);LD50, 4 h-67 ppm NO2 (rat)
 Immediate effects: Severe irritation or burns to skin, eyes and respiratory system
 Long term exposure: Long term exposure to concentrated vapors may cause erosion of the teeth. Long term exposure seldom due to corrosive properties of the acid.
 Cancer Hazard: IARC group 1-Carcinogenic to Humans(Strong inorganic mists containing Sulfuric acid),ACGIH-A2-Suspected Human Carcinogen.
 Routes of Exposure Eyes, Skin, Inhalation, Ingestion

12 ECOLOGICAL INFORMATION

Fish, Lepomis macrochirus, Sulfuric Acid,LC50-48 h-49 mg/L
 Daphnia Magna, Sulfuric Acid-EC50,48 h-60-70 mg/L
 Persistence and Degradability: Not Available
 Bioaccumulation potential: Unlikely
 Water result: Disperses in water.
 Soil/Sediment Result: No data available

13 DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulations.

14 TRANSPORT INFORMATION

UN Number: 1760
 UN Proper Shipping Name: CORROSIVE LIQUID, N.O.S.(SULFURIC ACID),
 Transport Hazard Class (es): 8
 Packing Group: II
 ERG: 154

15 REGULATORY INFORMATION

HMIS: Health: 3 Flammability: 0 Reactivity: 0
 Cercla Sulfuric Acid-RQ=1000 lbs
 Cercla Ferric Sulfate-RQ-1000 lbs
 Cercla Nitric Acid RQ=1000 lbs
 Sara Hazard Classification SARA Title III Section 311 Categories: Immediate (Acute) Health Effects: Yes, Delayed (Chronic) Health Effects: Yes, Fire Hazard: No, Sudden Release of Pressure Hazard: No, Recativity Hazard: No
 Sara Hazard Classification * THIS SUBSTANCE IS A CHEMICAL SUBJECT TO SARA TITLE III, SECTION 313 REPORTING REQUIREMENTS.
 Sara Hazard Classification Subject to reporting levels established by SARA Title III,Section 302

16 OTHER INFORMATION

No RoHS or REACH SVHC are contained in this product.

Disclaimer: The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship.

Date Prepared: 10/13/14