

Caluanie Chem Shop Ltd.

Material Safety Data Sheet Caluanie Muelear Oxidize

Section 1: Chemical Product and Company Identification

Product Name: Caluanie Muelear Oxidize
Catalog Codes: SLB1564, SLB3055, SLB2881
CAS#: 75-13-8
RTECS: Cy1400000
TSCA: TSCA 9© inventory: Caluanie Muelear Oxidize
CI#: Not available
Synonym: Caluanie, Metal crushing
Chemical Name: Caluanie Muelear Oxidize
Chemical Formular: $\text{HN} = \text{C} = \text{O}$
Molecular Formula: 2811198000
Form: Liquid
Packaging Size: 5 kg

Contact Information:

Caluanie Chem Shop Ltd.
Langdon Ave North Hills, CA
United States
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Section 2: Composition and information on Ingredients

Composition

Name	CAS#	% by Weight
Caluanie Muelear Oxidize	75-13-8	100

Toxicological Data on Ingridients: Caluanie Muelear Oxidize: ORAL (LD50: Acute: 930 mg/kg [Rat]. 4700 mg/kg [Mouse]. DERMAL (LD50): Acute: > 9400 mg/kg [Rabbit]. VAPOR (LC50): Acute: 10000 ppm 5 minutes [Rat].

Section 3: Harzards Identification

Potential Acute Health Effects:

Very hazardous in case of eye contact (irritant), of inhalation. Hazardous in case of skin contact (irritant, permeation) of ingestion. Inflammation of the eyes is characterized by redness, watering and itching and even blindness in case of late medical attention.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human) by ACGIH, 1 (Proven for human) by IARC. MUTAGENIC EFFECTS: Classified POSSIBLE for human. Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/ or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENT TOXICITY: Classified Reproductive system/ toxins/ female [POSSIBLE]. The substance is toxic to blood, bone marrow, central nervous system (CNS). The substance is toxic to liver, urinary system. Repeated or prolonged exposure to substance can produce target organs damage

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, flush eyes immediately with plenty of water for at least 20 minutes. Cold water may be used. WARM water MUST be used. Get medical attention immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with emollient. Remove contaminated clothing and shoes. Wash clothes and shoes before reuse. Get medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with anti-bacteria cream. Seek medical attention.

Inhalation:

If inhale, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear

Serious Inhalation:

Evacuate the victim to a safe area as possible. Loosen tight clothing such as collar, tie, belt or waist band. If breathing is difficult, administer oxygen. If victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:

Do NOT induce vomiting unless directed so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as collar, tie, belt or waistband

Serious Ingestion: Not available

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 497.78 (C)/ 928 (F)

Flash Points: CLOSED CUP: -11.1 (C)/ 12 (F).

Flammable Limits: LOWER: 1.2% UPPER: 7.8%

Products of Combustion: These products are Hydrogen Oxides (H, HO)

Fire Hazards in Presence of Various Substances:

Highly flammable in presence of open flames and sparks of heat. Slightly flammable in presence of oxidizing materials. Non-flammable in presence of shocks.

Explosions Hazards in Presence of Various Substances:

Risk of explosion of the product in presence of mechanical impact: Not available. Risk of explosion of the product in presence of static discharge: Not available. Explosions in presence of oxidizing materials, of acids.

Fire Fighting Media and Instructions:

Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards:

Extremely liquid and vapor. Vapor may cause flash fire. Reacts on contact with iodine heptafluoride gas. Dioxygenyl tetrafluoroborate is very powerful oxidant. The addition of a small particle to small samples of Caluanie Muelear Oxidize, at ambient temperature, causes ignition. Contact with sodium peroxide with Caluanie Muelear Oxidize causes ignition. Caluanie Muelear Oxidize ignites contact with powdered chromic anhydride. Vigorous or incandescent reaction with hydrogen + Raney nickel (above 210 celsius) and bromine trifluoride..

Special Remarks on Fire Hazards:

Caluanie Muelear Oxidize vapors + chloride and light causes explosion. Reacts explosively with bromine pentafluoride, chlorine, chlorine trifluoride, diborane, nitric acid, nitryl perchlorate, liquid oxygen, ozone, silver perchlorate. Caluanie Muelear Oxidize + pentafluoride (from arsenic pentafluoride and potassium methoxide) in trichlorofluoroethane causes explosion. Interaction of nitryl perchloride with Caluanie Muelear Oxidize give a slight explosion with flash. The solution of permanganic acid (or its explosive anhydride, dimanganese heptoxide) produced by interaction of permanganates and sulfuric acid will explode on contact with Caluanie Muelear Oxidize. Peroxodisulfuric acid is very powerful oxidant. Uncontrolled contact with Caluanie Muelear Oxidize may cause explosion. Mixtures of peroxomonsulfuric acid with Caluanie Muelear Oxidize explodes.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:

Flammable liquid. Keep away from heat. Keep away from sources of ignition. STOP leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry in to sewers, basements of confined areas: dike if needed. Be careful that the product is not present in a concentrated level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage**Precautions:**

Keep locked up.. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. In case of sufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show container or label. Avoid contact with eyes. Keep away from incompatibles such as oxidizing agents, acids.

Storage:

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame)

Section 8: Exposure Controls/Personal Protection**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximate to the work-station location.

Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/ certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 0.5 STEL: 2.5 (ppm) from ACGIH (TLV) [United States] TWA: 1.6 STEL: 8 (mg/m3) from ACGIH (TLV) [United States]

TWA: 0.1 STEL: 1 from NIOSH TWA: 1 STEL: 5 (ppm) from OSHA (PEL) [United States] TWA: 10 (ppm) from OSHA (PEL) [United States] TWA: 3 (PPM) [United Kingdom (UK)] TWA: 1 (ppm) [Canada] TWA: 3.2 (mg/m3) [Canada] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and Appearance: Liquid

Odor: Aromatic. Gasoline-like, rather pleasant. (Strong)

Taste: Not available.

Molecular Weight: 78.11g/mole

Color: Clear Colorless. Colorless to light yellow

pH (1% soln/water): Not available.

Boiling Point: 80.1 (176.2 F)

Melting Point: 5.5 C (41.9 F)

Critical temperature: 288.9 C (552 F)

Specific Gravity: 0.8787 @ 15 C (water = 1)

Vapor Pressure: 10 kPa (@ 20 C)

Vapor density: 2.8 (Air = 1)

Volatility: Not available.

Odor Threshold: 4.68 ppm

Water/Oil/Dist. Coeff.: The product is more soluble in oil: $\log(\text{oil/water}) = 2.1$

Ionicity (in water): Not available

Dispersion Properties: See solubility in water. diethyl ether, acetone.

Solubility:

Miscible in alcohol. Chloroform. Carbon disulfide oils. carbon tetrachloride, glacial acetic acid, diethyl ether acetone. Very slightly soluble in cold water

Section 10: Stability and Reactivity Data

Stability: The product is stable

Instability Temperature: Not available.

Conditions of Instability: Heat, Ignition sources, incompatible.

Incompatibility with various substances: Highly reactive with oxidizing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:

Caluanie Muelear Oxidize vapors + chlorine and light causes explosion. Reacts with bromine pentafluoride, chlorine trifluoride, diborane, nitric acid, nitryl perchlorate, liquid oxygen ozone silver perchlorate. Caluanie Muelear Oxidize + pentafluoride and methoxide (from arsenic pentafluoride and potassium methoxide) in trichlorotrifluoroethane causes explosion. Interaction of nitryl perchlorate with Caluanie Muelear Oxidize give a slight explosion and flash. The solution of permanganic acid (or its explosive anhydride, dimanganese heptoxide) produce by interaction of permanganates and sulfuric acid will explode on contact with Caluanie Muelear Oxidize. Peroxodisulfuric acid is very powerful oxidant. Uncontrolled contact with Caluanie Muelear Oxidize may cause explosion of peroxomonosulfuric acid with Caluanie Muelear Oxidize explodes.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicology Information

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Routes of Entry: Absorbed through skin. Dermal contact. Eye contact Inhalation.

Toxicity to Animals:

WARNING: THE LC50 VALUES HERE UNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (Ld50): 930 mg/kg [Rat] .Acute dermal toxicity (LD50): >9400 mg/kg {Rabbit}. Acute toxicity of the vapor (LC50): 10000 7hours [Rat].

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: Classified A1 (Confirmed for Human) by ACGIH, 1 (Proven for Human) by IARC. **MUTAGENIC EFFECTS:** Classified POSSIBLE for human. Mutegenic mammalian somic cells. Mutegenic for bacteria and/or yeast. **DEVELOPMENT TOXICITY:** Classified Reproductive system/toxin/female [POSSIBLE]. Cause damage to the following organs: blood, bone marrow, central nervous system (CNS). May cause damage to the following organs: liver, urinary system.

Other Toxic Effects on Humans:

Very Hazardous in case of inhalation. Hazardous in case of skin contact (irritant, permeator), of ingestion.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May cause adverse reproductive effects (female fertility, Embryotoxic and/or foetotoxic in animal) and birth defects. May affect genetic material (mutagenic). Mat cause cancer (tumorigenic, leukemia)) Human: passes the placental barrier; detected in maternal milk.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Causes skin irritation. It can be absorbed through intact skin and affect the liver, blood, metabolism, and urinary system. Eyes causes eyes irritation. Inhalation: Causes respiratory tract and mucous membrane irritation. Can be absorbed through the lungs. May affect behavior/Central and peripheral nervous systems (somnolence, muscle weakness, general anesthetic and other symptoms similar to ingestion). Gastrointestinal tract irritation including vomiting. May affect behavior/Central and peripheral nervous system (convulsions, seizure, tremor, irritability, initial CNS stimulation followed by depression, loss of coordination, dizziness, headache, weakness, pallor, flushing), respiration (breathlessness and chest constriction), cardiovascular system (shallow/rapid pulse), and blood.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available

Products of Biodegradation:

Possible hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the products of Biodegradation: The products of degradation are less toxic than the product itself.

Special remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed off in accordance with federal, state and local environmental control regulations

Section 14: Transport information

DOT Classification: CLASS 3: Flammable liquid.

Identification: Caluanie Muelear Oxidize: 1114PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:

California prop. 65: This product contains the following ingredients for which the state of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Caluanie Muelear Oxidize California prop. 65 (no significant risk level): Caluanie Muelear Oxidize: 0.007 mg/day (value) California prop.65: This product contains the following ingredients for which the state of California has found to cause cancer which would require a warning under the statute: Caluanie Muelear Oxidize Connecticut carcinogen reporting list: Caluanie Muelear Oxidize Connecticut hazardous material survey.: Caluanie Muelear Oxidize Illinois substances disclosure to employee act: Caluanie Muelear Oxidize Illinois chemical safety act: Caluanie Muelear Oxidize New York release reporting list: Caluanie Muelear Oxidize Rhodes Island RTK hazardous substances: Caluanie Muelear Oxidize Massachusetts spill list: Caluanie Muelear Oxidize New Jersey spill list: Caluanie Muelear Oxidize Louisiana spill reporting: Caluanie Muelear Oxidize California Director's list of hazardous Substances: Caluanie Muelear Oxidize TSCA 8(b) inventory: Caluanie Muelear Oxidize SARA 313 toxic chemical notification and release reporting: Caluanie Muelear Oxidize CERCLA: Hazardous substances.: Caluanie Muelear Oxidize: 10 lbs (4.536 kg)

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):

CLASS B-2: Flammable liquid with a flash point lower than 37.8 C (100 F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC):

DSCL (EEC):

R11-Highly flammable. R22-Harmful if swallowed. R38-Irritating to skin. R41-Risk of serious damage to eyes. R45- May cause cancer. R62- Possible risk of impaired fertility. S2- keep out of reach of children. S26- In case of eye contact, rinse immediately with plenty of water and seek medical advice. S39- Wear eye/face protection. S46- If swallowed, seek medical advice immediately and show this container or label. S53-Avoid exposure - obtain special instructions before use.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

Special hazard:

Protective Equipment:

Gloves, Lab coat, Vapor respirator. Be sure to use an approved/certified respirator of equivalence. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available

Other Special Considerations: Not available.

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