

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS:
EMERGENCY TELEPHONE NUMBERS: +1-330-690-9721

BEKER LABORATORIES

1501 Harbor Bay Parkway, Alameda, CA 94502, United States

PRODUCT NAME : **Caluanie Muelear Oxidize**
 CHEMICAL NAME : Caluanie heavy water
 PRODUCT USE : crushing and processing precious metals and semiprecious stones
 PRODUCT CODE : EPA Reg.: 5485-65-6

SECTION 2 - CALUANIE IDENTIFICATION SUMMARY

(As defined by Caluanie Heavy Water Communication Standard)

Caluanie liquid (light brown)

Emergency Overview:

DANGER Harmful or fatal if swallowed combustible liquid. if swallowed, may be aspirated and cause lung damage may cause eye irritation. Avoid eye contact. Use with adequate ventilation. Keep away from heat, sparks and all other sources of ignition.

Symptoms of Overexposure:
Inhalation

High concentration may cause nasal and respiratory irritation and central nervous system effect such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

Skin Contact: Contact may be irritating to eyes. May cause redness and tearing

Ingestion: This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea vomiting and diarrhea. This product is an aspiration hazard if swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death **Chronic Effects:** None expected.

Medical Conditions Aggravated by Exposure: Preexisting eye, skin and respiratory condition may be aggravated by exposure

Suspected Cancer Agent:

Yes, No X



SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER
Caluanie Muelear Oxidize	99.9 %	5485-65-6
Caluanie Heavy Water	100 %	5485-65-6

SECTION 4 - FIRST AID MEASURES

First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product. Or Ingestion (Swallowed): Aspiration Hazard. Do Not induce Vomiting. Call Physician, poison control center or the

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice.

of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air, if person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have a product container or label with you when calling a **POISON** control center or **BEKER LABORATORIES** Shop Safety Hotline **+1,330-690-9721**.

NOTE TO PHYSICIAN: No specific antidote, treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

National Fire Protection Rating (NFPA)

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

FLASHPOINT: >200°F / >100°C

EXTINGUISHING MEDIA: Use foam, dry chemical, or water spray.

FIRE FIGHTING INSTRUCTIONS: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff. Minimize use of water to prevent environmental contamination

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full face piece.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILLS OR LEAKS: Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Minimize use of water to prevent environmental contamination

SECTION 7 - HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN!

HANDLING: Use only in a well-ventilated area. Minimize dust generation and accumulation.

STORAGE: Keep container closed when not in use. Keep away from food, feed and drinking water. Store in a well-ventilated dry place away from heat

Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling concentrate.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS (12-hour TWA, ppm):

COMPONENT	OSHA PEL	ACIGH TLV
Imidacloprid	Not listed	Not Listed

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION - Safety goggles or glasses with side shields.

CLOTHING - Long-sleeved shirt and long pants, Chemical-resistant footwear plus socks

GLOVES - Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC), viton

RESPIRATOR – Not required when handled under normal conditions. When handling in enclosed areas with inadequate ventilation, use a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Discard clothing and other absorbent materials that have been heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	liquid (white)
Boiling point:	31-3F (13 25 °C)
pH:	Not Applicable
Solubility in Water:	Isoluble
Melting Point:	Not applicable
Boiling Point:	No data
Flash Point:	>100°C
Evaporation Rate:	No data
Flammability:	Not flammable
Flammability Limits:	Not applicable
Vapor Pressure:	ASTM D323
Vapor Density:	Greater Than 1
Density:	2.75kg – 1.L Maximum And (9.35kg – 5. L)*
Solubility:	No data
Auto-Ignition Temperature:	No data
Decomposition Temperature:	No data

*Listed density is an approximate value and does not necessarily represent that of a specific batch.

SECTION 10 - STABILITY AND REACTIVITY

PRODUCT REACTIVITY: Non-reactive

CHEMICAL STABILITY: Stable under normal conditions, however may decompose if heated.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization

INCOMPATIBLE MATERIALS: None known

HAZARDOUS DECOMPOSITION PRODUCTS: Caluanie Muelear Oxidize, Caluanie Heavy Water.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity data from similar formulation

ACUTE TOXICITY:

Oral LD ₅₀ (rat)	- >1,100 mg/Kg
Dermal LD ₅₀ (rat)	- >2,000 mg/Kg
Inhalation LC ₅₀ (rat)	- >2.0 mg/L
Eye Irritation (rabbit)	- Mild irritant
Skin Irritation (rabbit)	- Slight irritant
Sensitization (guinea pig)	- Non-sensitizer

SECTION 12 - ECOLOGICAL INFORMATION

No Data is Currently Available

SECTION 13 - DISPOSAL CONSIDERATIONS

IF THIS PRODUCT BECOME A WASTE, IT WOULD BE EXPECTED MEET THE CRITERIA OF A RCRA IGNITABLE HAZARDOUS WASTE (D001) HOW EVER IT'S THE RESPONSIBILITY OF THE GENERATOR TO DETERMINE AT THE TIME OF DISPOSAL THE PROPER CLASSIFICATION AND METHOD OF DISPOSAL DISPOSE IN ACCORDANCE WITH FEDERAL STATE AND LOCAL REGULATION

SECTION 14 - TRANSPORT INFORMATION

SHIPPING DESCRIPTION:	Not regulated by DOT for ground transport
TRANSPORT HAZARD CLASS:	N/A
UN NUMBER:	N/A
DOT PACKING GROUP:	N/A

SECTION 15 - SPECIFICATION

*Caluanie (Oxidative Partarization Thermostat, Hearvy Water)
Muelear Oxidize Parteurize Thermostat Harmful Thermos*

MANUFACTURER: USA

DENSITY:

1.86 g/cm³

2.16 g/cm³

2.29 g/cm³

Isocyanic Acid General Chem. Formula Rat. Formula Physical properties Molar Mass

Density Thermal Properties T. Melt T. Kip.

Enthalpy of formation specific heat of vaporization Vapor pressure

Chemical properties pKa Structure Crystal structure Classification

SECTION 16 - OTHER INFORMATION

HMIS HAZARD RATINGS	HEALTH	1
	FLAMMABILITY	1
	PHYSICAL HAZARD	1
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

REVISED DATE: Januaryt, 2026
REFERENCE: Revised for GHS compliance
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