



## Section 1 - Identification

**Product Name:** Biocide 4080  
**Alternate Name:** Biocide 4080 (internal# CPL4080)  
**Recommended Use:** Biocide / biodispersant  
**Manufacturer:** Chem Pro Laboratory, Inc., 941 W 190th St, Gardena CA 90248, 310-532-8611  
**ChemTrec:** 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2 - Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

### DANGER



**Harmful if swallowed**

**May cause an allergic skin reaction**

**Combustible liquid**

**Causes severe skin burns and serious eye damage**

Avoid breathing dust/fume/gas/mist/vapors/spray.

Contaminated work clothing must not be allowed out of the workplace.

Do not breathe dusts or mists.

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

Keep away from flames and hot surfaces. No smoking.

Wash contacted areas thoroughly after handling.

Wear eye and face protection, protective gloves and clothing, and protective gloves.

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

Immediately call a poison center or doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash skin with plenty of water. Wash contaminated clothing before reuse.

IF ON SKIN: Wash with plenty of water.

IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention.

IF SWALLOWED: Immediately call a poison center or doctor. Rinse mouth. Do NOT induce vomiting.

IN CASE OF FIRE: Use water spray, carbon dioxide, dry chemical, or appropriate foam to extinguish.

Store locked up, in a well-ventilated place. Keep cool.

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

## Section 3 - Composition/information on ingredients

Chemical Name	CAS Number	Percent
tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	533-74-4	20-30%
sodium hydroxide	1310-73-2	10-20%



#### Section 4 - First-aid measures

##### Emergency and First Aid Procedures:

<b>Inhalation</b>	Immediately remove exposed individual to fresh air. If nausea, headache, dizziness, or difficulty in breathing, see a doctor immediately.
<b>Eye Contact</b>	Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). See doctor as soon as possible for further evaluation.
<b>Skin Contact</b>	Wash exposed area with plenty of water. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists see a doctor.
<b>Ingestion</b>	Do not induce vomiting. Rinse with copious amount of water or milk. See doctor immediately.
<b>Symptoms of Overexposure:</b>	
<b>Inhalation</b>	Nausea, headache, dizziness difficulty in breathing or is cyanotic.
<b>Contact with Skin or Eyes</b>	Inflammation of the eye is characterized by redness, watering and itching.
<b>Absorption Through Skin</b>	Skin contact may produce burns. Skin inflammation is characterized by itching, scaling, reddening, or occasional blistering.
<b>Ingestion</b>	In case of ingestion seek medical assistance immediately to the nearest medical policy.

#### Section 5 - Fire-fighting measures

<b>Extinguishing Media</b>	water spray, carbon dioxide, dry chemical, or appropriate foam
<b>Fire Fighting Procedure</b>	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
<b>Unusual Fire/Explosion Hazard</b>	Corrosive to eyes and skin. Sensitizer. Avoid breathing vapors or spray mists.
<b>Hazardous Combustion Products</b>	Substance is noncombustible

#### Section 6 - Accidental release measures

<b>Spill Response Procedure</b>	Before responding to a spill or leak of this product, review each section of MSDS. Contain spill and absorb with inert absorbent such as vermiculite. Sweep up and place in marked containers for disposal.
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#### Section 7 - Handling and storage

<b>Handling Precautions</b>	Corrosive to eyes and skin. Sensitizer. Avoid breathing vapors or spray mists.
<b>Storage Conditions</b>	Store in a cool dry place. Keep container tightly sealed in a dry and ventilated area. Do not store unopened containers in direct sunlight for extended periods.

#### Section 8 - Exposure controls/personal protection

<b>Chemical Name</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>
tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	2 mg/m <sup>3</sup> TWA	2 mg/m <sup>3</sup> TWA
sodium hydroxide	2 mg/m <sup>3</sup> TWA	2 mg/m <sup>3</sup> (C)
<b>Ventilation</b>	Local and mechanical (general) exhaust required.	
<b>Respiratory Protection</b>	NIOSH/MSHA approved respirator when misting may occur.	
<b>Protective Gloves</b>	Chemical resistant gloves.	
<b>Eye Protection</b>	Splash proof goggles.	



**Other Protective Equipment** Body protective clothing, chemical resistant safety shoes. Eye wash fountain and safety shower in work place are recommended.

**Work / Hygienic Practices** Handle in accordance with good industrial hygiene and safety practices.

### Section 9 - Physical and chemical properties

<b>Appearance</b>	Clear, yellow to amber liquid.	<b>Vapor Pressure @20°C</b>	Not available
<b>Odor</b>	Pungent odor	<b>Vapor Density</b>	Not available
<b>Odor Threshold</b>	Not Determined	<b>Specific Gravity</b>	1.15 at 25 deg C
<b>pH</b>	>12	<b>Solubility in Water</b>	Easily soluble in cold and hot water.
<b>Melting Point, °F</b>	-10 deg F	<b>Partition Coefficient</b>	Not Determined
<b>Boiling Point, °F</b>	Not available	<b>Auto Ignition Temp, °F</b>	Not available.
<b>Flash Point, °F</b>	154 deg F	<b>Decomposition Temp, °F</b>	Not Determined
<b>Evaporation Rate</b>	Not available	<b>Viscosity</b>	Not Determined
<b>Flammability Limits</b>	Not Determined	<b>Percent Volatile</b>	N/A

### Section 10 - Stability and reactivity

<b>Reactivity</b>	in water: Not Reactive
<b>Stability</b>	stable under normal conditions
<b>Conditions to Avoid</b>	Strong acids, strong bases, strong oxidizers, and reducing agents.
<b>Incompatible Materials</b>	Strong oxidizing agents. Strong acids.
<b>Hazardous Decomposition Products</b>	Carbon oxides (CO, CO <sub>2</sub> ) carbon disulfide, nitrogen oxides (NO, NO <sub>2</sub> ) sulfur oxides (SO <sub>2</sub> , SO <sub>3</sub> ) and hydrogen sulfide.
<b>Hazardous Polymerization</b>	Hazardous polymerization will not occur.

### Section 11 - Toxicological information

<b>Routes of Entry</b>	inhalation, skin or eye contact, ingestion
<b>Acute Exposure Symptoms</b>	Very hazardous in case of eye contact, irritant corrosive, sensitizer to skin. Dermal LD50 > 200 mg/kg (Rabbit)
<b>Chronic Exposure Effects</b>	The effects from chronic exposure to this product have not been fully evaluated.
<b>Medical Conditions Aggravated By Exposure</b>	Not available.

**Acute Toxicity:**

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione				
e	533-74-4	1080 mg/kg	>2000 mg/kg	8.4 mg/L
sodium hydroxide	1310-73-2	300-500 mg/kg	>2000 mg/kg	no data

**Carcinogenicity:**

Ingredients are on the following lists of suspected or known carcinogens:

Chemical Name	CAS Number:	IARC	NTP	OSHA
tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	533-74-4	No	No	No
sodium hydroxide	1310-73-2	No	No	No



### Section 12 - Ecological information

Overview: No data

### Section 13 - Disposal considerations

**Preparing Waste For Disposal** Follow Federal, State and local regulations governing the disposal of waste materials.

### Section 14 - Transport information

**DOT Shipping** UN1824, SODIUM HYDROXIDE SOLUTION, 8, PG II

### Section 15 - Regulatory information

**California Proposition 65** This product does not contain chemicals listed by California proposition 65.

**HMIS Ratings** Health: 3, Flammability: 2, Reactivity: 2

### Section 16 - Other information

**Date Prepared** 5/22/2015

**Preparer** Michael Bortnik

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