

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Rapid Bio Control 224  
**Manufacturers Name:** Rapid Energy Services, LLC  
**Manufacturers Address:** 1424 S. Hugh Wallis Rd. Lafayette, La 70508  
**Emergency Telephone Number:** 1-800-255-3924 (ChemTel)

## 2. COMPOSITION/ INFORMATION ON INGREDIENTS

Components / CAS	Weight %	ACGIH-TLV Data	OSHA (PEL) Data
Dazomet 533-74-4	24.0	Not Determined	Not Determined
Sodium Hydroxide 1310-73-2	<4.0	Not Determined	Not Determined

Tetrahydro-3,5-dimethyl-2-H-1,3,5-thiadiazine-2-thione.

This product contains hazardous materials as defined by OSHA Hazard Communication Standard 29 CFR 1910.1200.

### Exposure Guidelines:

#### Sodium Hydroxide

OSHA PEL: 2 mg/m<sup>3</sup>

OSHA Ceiling Limit: 2 mg/m<sup>3</sup>

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

*Corrosive liquid. May cause severe skin irritation. May cause severe eye, nose, throat, and lung irritation or burns. Harmful by inhalation and if swallowed.*

**Eye:** This product is considered to be a primary eye irritant. Causes severe irritation and burns. Danger of very serious irreversible effects.

**Skin:** A single, prolonged exposure is not likely to result in the material being absorbed skin in harmful amounts. Causes irritation, possible burns on prolonged contact.

**Ingestion:** Ingestion is not considered a route of exposure. Harmful if swallowed. Ingestion will cause irritation of mouth, throat, and esophagus.

Chronic Effects: Sensitization of causing allergic dermatitis.

Carcinogenicity Information: No known cancer hazards.

## 4. FIRST AID MEASURES

**Inhalation:** Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen. If not breathing, give artificial respiration. Get medical attention if cough or other symptoms.

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Wash affected immediately with large amount of soap and water. Get medical attention if irritation develops or persists.

**Ingestion:** If swallowed, do not induce vomiting. Give water or milk to dilute. Never give anything by mouth to an unconscious person. Contact a physician.

**Note to physician:** Probable mucosal damage may contraindicate the use of gastric lavage. All treatments should be based on observed signs and symptoms of distress in the patient. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Flammable Properties

#### Flammable Limits in Air

PMCC Flash Point: >93.9 °C (201.0 °F)

Autoignition Temperature: N/A

#### Flammable Limits:

LEL: N/A

UEL: N/A

#### Extinguishing Media:

Water, carbon dioxide, foam or dry powder.

#### Fire & Explosion Hazards:

No known unusual hazards in a fire/explosion situation.

#### Fire Fighting Instructions:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Dike and collect water used to fight fire. Contaminated extinguishing water be disposed of accordance with applicable regulations.

#### Combustion Products:

Oxide of carbon, nitrogen and sulfur.

## 6. ACCIDENTAL RELEASE MEASURES

**Safeguards (Personnel):** Wear appropriate personal protective equipment. Stop the source of the leak or release. Clean up releases as soon as possible, observing precautions in Exposure Control/Personal Protection. Contain liquid to prevent further contamination of soil, surface water or groundwater.

**Initial Containment:** Contain spilled material. Absorb spills with inert material. Transfer to suitable containers for disposal.

**Large Spills Procedure:** Warning. Avoid runoff into storms sewers, municipal sewers, open bodies of water and ditches which lead to waterways. This product is toxic to fish. Contain spills liquid with sand or earth.

**Small Spills Procedure:** Clean up area by absorbent material.

## 7. HANDLING AND STORAGE

### Recommended Storage Temperature

Minimum: 1.7 C (35.1F)

Maximum: 55.0 C (131.0 F)

**Handling (Personnel):** Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Avoid contact with skin and eyes. Avoid breathing mists. Wash hands thoroughly after handling.

**Handling (Physical Aspects):** Corrosive liquid. Store in a secure area. Wash hands thoroughly after handling.

**Storage Precautions:** Keep container tightly closed. Avoid extreme temperatures. Keep in a cool place away from acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

**Eye/Face Protection Requirements:** Chemical goggles are recommended to avoid contact with eyes.

**Skin Protection Requirements:** Materials is a potential skin sensitizer. Wear protective gloves (Nitrile, Butyl Rubber) to minimize skin contamination. Selection of specific items such as gloves, boots, apron or full-body suit will depend on operation.

**Respiratory Protection Requirements:** When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Liquid
<b>Color:</b>	Pale Yellow
<b>Boiling point/range:</b>	212 F @ 760 mm Hg
<b>Solubility in water:</b>	Complete
<b>Specific Gravity:</b>	1.16 @ 25 C (77 F) (Water = 1)
<b>PH:</b>	13.6 @ 100 WT/WT%
<b>Viscosity:</b>	7.2 cps @ 75 F
<b>Evaporation Rate:</b>	<1 (Butyl Acetate = 1)
<b>Density:</b>	9.66 lbs/gal

## 10. STABILITY AND REACTIVITY

**Stability:** This compound is stable at ambient conditions.

**Polymerization:** Hazardous polymerization will not occur.

**Incompatibility with other Materials:** Avoid contact with acids and oxidizing agents. May generate heat, spattering or boiling and the release of toxic fumes.

**Decomposition:** Oxides of carbon, nitrogen and sulfur. Do not breathe smoke or fumes. Dimethylamin, oxides of sulfur, H<sub>2</sub>S, formaldehyde or CS<sub>2</sub> are formed under acidic conditions. Under alkaline conditions, decomposition products are sodium methyldithiocarbamate, formate and methanol.

**Conditions to Avoid:** None known.

## 11. TOXICOLOGICAL INFORMATION

**Eye Effects:** Eye irritation - rabbit: Extremely irritating.

**Skin Effects:** Skin irritation - rabbit: Severe skin irritant.

**Acute Oral Effects:** Acute Oral LD<sub>50</sub> (rat): 1650 mg/kg.

**Chronic Effects:** Sensitization: Suspected of causing allergic dermatitis.

## 12. ECOLOGICAL INFORMATION

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal:** Avoid disposal into waste water treatment facilities. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

EPA Hazardous Waste: D002- Corrosive.

RCRA RQ: 1000 lbs.

**Container Disposal:** Uncleaned empty containers should be disposed of the same manner as the contents.

## 14. TRANSPORT INFORMATION

Product Label: Rapid Bio Control 224

Corrosive liquid,basic, inorganic, n.o.s., (Sodium Hydroxide), 8, UN3266, PGII, RQ=1000

**Miscellaneous:** The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

## 15. REGULATORY INFORMATION

**SARA 311 Categories:** Immediate (Acute) Health Effects: Yes  
Delayed (Chronic) Health Effects: Yes  
Fire Hazard: No  
Sudden Release Of Pressure Hazard: No  
Reactivity Hazard: No

### Regulatory Lists Searched:

01 = SARA 313	02 = SARA 302/304
03 = ACGIH TWA	04 = ACGIH Calc TLV
05 = CANADIAN WHMIS	06 = CA Proposition 65
07 = CERCLA 302.4	08= ACGIH STEL
09 = OSHA PEL	10 = OSHA Ceiling

**EEC Symbols and Indications of Dander:** Not Determined

**WHMIS Hazards Symbols:** Class D-2(B) - Materials Causing Other Toxic Effects, Class E - Corrosive Material

**Canadian Disclosure List:** SODIUM HYDROXIDE (1310-73-2)

**SARA Title III - Section 313:** DAZOMET\* (533-74-4)

**Miscellaneous Information:** This product is subject to regulation under the Canadian Pest Control Products Act. (P.C.P. Act). Therefore, this product is excluded from the supplier labeling and material safety data sheet requirements as specified in Section 12 of the Hazardous Products Act.

**Other Information:** Prepared by: HS&E Group  
 Approval Date: January 8, 2007  
 Supersedes Date: March 21, 2001

**HMIS Rating:** Health - 3  
 Flammability - 1  
 Reactivity - 0

**NFPA Rating:** Health - 3  
 Flammability - 1  
 Reactivity - 0

**Revision Statement:** Revised information in section(s): N/A.

**Abbreviations Used In This MSDS:**

TLV - THRESHOLD LIMIT VALUE  
 STEL - SHORT TERM EXPOSURE LIMIT  
 RQ - REPORTABLE QUANTITY  
 C - CEILING LIMIT  
 NDA - NO DATA AVAILABLE

TWA - Time Weighted Average  
 TPQ - Threshold Planning Quantity  
 PEL - Permissible Exposure Level  
 CAS - Chemical Abstract Service Number  
 N/A - Not Applicable or Not Available

16. OTHER INFORMATION

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>B</b>

*The information and recommendations contained herein are, to the best of RAPID ENERGY SERVICES, LLC's knowledge and belief, accurate and reliable as of the last revision date. This document is offered in good faith. The information relates to the specific material designated, and may not be valid for such material used in combination with any other materials, in any process, or if used in a matter other than for which it is intended.*



## MATERIAL SAFETY DATA SHEET

*RAPID ENERGY SERVICES, LLC does not warrant or guarantee accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer warranty against patent infringement.*

Signed: Safety Officer  
Date: Mar 23, 2009  
Revised: