

# BUCKMAN LABORATORIES, INC. MATERIAL SAFETY DATA SHEET



## BUSAN 1059

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Phone 1-800-BUCKMAN

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24 Hour Emergency Phone: (901) 767-2722

### SECTION 1

#### OSHA HAZARD CLASSIFICATIONS

Irritating to eyes, skin, and respiratory tract. Avoid inhalation of dust.

### SECTION 2

#### HAZARDOUS COMPONENTS

<i>Chemical Name</i>	<i>CAS Number</i>	<i>% by Weight</i>	<i>TLV</i>
1) Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	533-74-4	98	Not available.

*The remainder of the components comprise proprietary information.*

### SECTION 3

#### FIRST AID INFORMATION

**Eve Exposure:** Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation.

**Skin Exposure:** Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists consult a health care professional.

**Inhalation:** If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, seek a health care professional immediately.

**Ingestion:** DO NOT INDUCE VOMITING. Rinse with copious amounts of water or milk, first. Irrigate the esophagus and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product seek medical assistance immediately; take individual to nearest medical facility.

### SECTION 4

#### PRIMARY ROUTES OF EXPOSURE

**1. Effects from Acute Exposure:**

Eye Exposure: Hazardous in case of eye contact (irritant).

Skin Exposure: Hazardous in case of skin contact (irritant, Sensitizer.). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation: May be harmful if inhaled. Do not breathe spray mists of the undiluted product. Effects will depend on concentration and length of time of exposure.

Ingestion: Ingestion is not expected to be a primary route of exposure.

**2. Effects from Chronic Exposure:**

The effects from chronic exposure to this product have not been fully evaluated.

**SECTION 5****Toxicological Information****Acute Effects:**

Acute	Oral	(LD50) = 363 mg/kg Rat
Acute	Dermal	(LD50) = >2000 mg/kg Rabbit
Acute	Inhalation	(LC50) = >1.7 mg/l (4 hours) Rat

**Irritant /Sensitization Effects:**

Hazardous in case of eye contact (irritant).

Hazardous in case of skin contact (irritant, Sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

May be harmful if inhaled. Do not breathe spray mists of the undiluted product. Effects will depend on concentration and length of time of exposure.

**Carcinogenic Potential:**

Not tested by Buckman Laboratories. Not shown as a carcinogen by OSHA, IARC, or NTP.

**Target Organs Effects:**

May cause damage to the following organs: upper respiratory tract, skin, eyes.

**Other Health Effects:**

None known.

**SECTION 6****Environmental Toxicological Information**

LC50 = 11.2 mg/l 48 hours Daphnia magna

LC50 = 16.2 mg/l 96 hours Rainbow trout

**SECTION 7****Physical and Chemical Properties**

<i>Appearance</i> .....	White, crystalline solid
<i>Odor</i>	Slight.
<i>Density</i>	0.53 g/cm <sup>3</sup> at 25°C (77°F)
<i>Flash Point</i>	Not available.
<i>Melting/Freezing Point</i>	Not available.
<i>Boiling Point</i>	Not available.

Partially soluble in cold water. Partially soluble in hot water.

<i>pH (Neat)</i>	Not available.
<i>pH</i>	(100 ppm in water) 6 -7
<i>Vapor Pressure</i>	Not applicable for solids.
<i>o/w Partition Coefficient</i>	Not available.
<i>Oxidizing/Reducing Properties.</i>	Not available.
<i>Viscosity</i>	Not available.
<i>Additional pH Information</i>	Not available.

**SECTION 8**

***Fire and Explosion Information.***

*Flammable Limits* Not available

*Extinguishing Media* Water fog, carbon dioxide, foam, dry chemical.

*Special Firefighting Procedures* Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

**SECTION 9**

***Reactivity Information***

*Stability* Stable under normal conditions of use and storage. Keep dry.

*Incompatibility* Moisture.

*Hazardous Decomposition Products* Carbon oxides (CO, CO<sub>2</sub>), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub>)

**SECTION 10**

***Handling Precautions***

Rubber gloves, safety glasses or goggles, body protective clothing and shoes are required. Eye-wash fountains in the work place are recommended. Provide ventilation to control dust. If dusting can occur, a NIOSH approved respirator is recommended. The handling precautions for this product are based on the characteristics of the neat product unless otherwise specified.

**SECTION 11**

***Satisfactory Materials of Construction***

Not available.

**SECTION 12**

***Spill, Leak and Disposal Procedures***

***SPILL AND LEAK RESPONSE GUIDELINES***

Important: Before responding to a spill or leak of this product, review each section of this MSDS. Follow the recommendations given in the Handling Precautions sections. Check the Fire and Explosion Data section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritating fumes are present, consider evacuation of enclosed areas.

Emergency Response Assistance: Emergency technical assistance is available at any time from Buckman Laboratories, Inc., by calling (901) 767-2722.

Initially minimize area effected by the spill or leak. Block any potential routes to water systems (e.g., sewers, streams, lakes, etc.). Based on the product's toxicological and chemical properties, and on the size and location of the spill or leak, assess the impact

on contaminated environments (e.g. water systems, ground, air equipment, etc.). There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments. Buckman Laboratories, Inc. can be contacted for technical assistance. Determine if federal, state, and/or local release notification is required (see Regulatory Classifications section of this MSDS). Recover as much of the pure product as possible into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Address clean up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Flushing residual material to an industrial sewer, if present at the site of a spill or leak incident, may be acceptable if authorized approval is obtained. If product and/or spill/leak residuals are flushed to an industrial sewer, insure that they do not come into contact with incompatible materials. Contact the person(s) responsible for the operation of your facility's industrial sewer system prior to intentionally flushing spills or leaks of this product to the industrial sewer.

## DISPOSAL GUIDELINES

Note: Follow federal, state, and local regulations governing the disposal of waste materials.

Neat Product: Contact your Buckman representative or Buckman Laboratories, Inc., at (901) 278-0330.

Contaminated Materials: Determine if waste containing this product can be handled by available industrial effluent system or other on-site waste management unit. If off-site management is required, contact a company experienced in industrial waste management. This product is not specifically listed in 40 CFR 261 as a Resource Conservation and Recovery Act (RCRA) hazardous waste. However, spill or leak residuals may meet the criteria of a characteristic hazardous waste under this Act. Check the characteristics of the material to be disposed of and/or the physical and reactivity data given in this MSDS for the neat product.

Container Disposal: Empty containers, as defined by appropriate sections of the RCRA, are not RCRA hazardous wastes. However, insure proper management of any residuals remaining in container.

## SECTION 13

### ***Transportation and Shipping Information***

*DOT Shipping Information: Not Regulated.*

*IMO/IMDG Shipping Information: Not Regulated.*

*IATA Shipping Information: Not Regulated.*

*Unless otherwise stated, the shipping information provided above applies only to non-bulk containers of this product. Proper shipping name and general shipping information may vary depending on packaging and mode of shipment. All products shipped from Buckman locations have been properly packaged and labeled according to appropriate hazardous materials shipping regulations. If any alteration of packaging, product, or mode of transportation is further intended, different shipping information, including but not limited to proper shipping name, RQ designation, and labeling may apply. For further information pertaining to the shipping requirements for this product, contact Buckman 's Transportation Department or DOT Coordinator.*

## SECTION 14

### ***Regulatory Information***

The following Regulations are known to apply to the use and disposal of this product. Additional Federal, State and Local regulations may also be applicable.

#### **SARA (Superfund Amendments and Reauthorization Act)**

*SARA 302 Extremely Hazardous Substances List ...*

No components of this product are listed.

*SARA 312 Hazard Category ...*

Immediate (Acute) Health Hazard

*SARA 313 Toxic Chemicals List ...*

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372:

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

**CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)**

No components of this product are present above the *de minimus* levels.

**RCRA (Resource Conservation and Recovery Act) Listed Hazardous Waste**

No components of this product are listed.

**CWA (Clean Water Act) Listed Substances**

No components of this product are listed.

**FDA (Food and Drug Administration)**

This product is approved under the following FDA (21 CFR) sections: 1) 175.105- Limitations: For use as a preservative only. 2) 178.3120- Limitations: For use as a preservative only. 3) 176.230- Limitations: For use as a preservative for substances added to the pulp suspension prior to the sheet forming operation, provided the preservative is volatilized by heat in the drying and finishing of the paper and paperboard. As a preservative for coatings, provided the preservative is volatilized by heat in the drying and finishing of the coated paper and paperboard. 4) 176.300 -No known limitations.

**TSCA (Toxic Substances Control Act) Applicability**

All components are listed on the TSCA Inventory. Registered pesticides are exempt from the requirements of TSCA.

**FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act)**

This product is a registered pesticide. EPA Reg. No. 1448-104

**HMIS/INPC Rating** Health 3 Flammability 1 Reactivity 1

**NFPA Ratings** Health 3 Flammability 1 Reactivity 1

**State Regulations**

*Various State Right To Know Acts ...*

Non-proprietary hazardous chemicals are listed in Section 2 of this MSDS. Should you require further information on specific proprietary or inert ingredients please contact Buckman Laboratories' Regulatory Affairs Department.

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Data Sheet is the responsibility of the user. This Material Data Safety Sheet was prepared to comply with the OSHA Hazard Communication regulations.

Buckman Laboratory, Inc. warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty.

The exclusive remedy against seller shall be in a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort.

Any controversy or claim arising out of or relating to this contract, or breach thereof, shall be settled by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgment upon the rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

