

Revision number: 2 Revision date: 10/06/2014

IDENTIFICATION 1.

Product name: Product code:

5-Bromo-5-nitro-1,3-dioxane B3156

For laboratory research purposes.

Product use: Restrictions on use:

Company:

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2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Acute Toxicity - Oral [Category 4] Skin Corrosion/Irritation [Category 2]

Signal word:

Warning!

Causes skin irritation Harmful if swallowed

Hazard Statement(s):



Pictogram(s) or Symbol(s):

Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal]

protective gloves. If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. None Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:	Substance
Components:	5-Bromo-5-nitro-1,3-dioxane
Percent:	>98.0%(GC)
CAS Number:	30007-47-7
Molecular Weight:	212.00
Chemical Formula:	C ₄ H ₆ BrNO ₄

Not for drug or household use.

TCI AMERICA

SAFETY DATA SHEET

Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department: TCI** America Environmental Health Safety and Security +1-503-286-7624

Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear

4. FIRST-AID MEASURES Inhalation: Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Call a poison center or doctor if you feel unwell. Remove and wash contaminated clothing before re-use. Skin contact: Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water, Eye contact: occasionally lifting the lower and upper eyelids. Contact with material may irritate or burn eyes. If eye irritation persists get medical advice/attention. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Harmful if swallowed. Do not induce vomiting with out medical advice. If swallowed, seek medical advice Ingestion: immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Symptoms/effects: Redness. Acute: No data available Delayed: Immediate medical attention: WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is harmful. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. 5. FIRE-FIGHTING MEASURES Dry chemical, CO₂, sand, earth, water spray or regular foam Consult with local fire authorities before Suitable extinguishing media: attempting large scale fire fighting operations. Specific hazards arising from the chemical Hazardous combustion products: These products include: Carbon oxides Nitrogen oxides Halogenated compounds Other specific hazards: Closed containers may explode from heat of a fire. Special precautions for fire-fighters: Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when heated. Move containers from fire area if you can do it without risk. Special protective equipment for fire-fighters: Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection. 6. ACCIDENTAL RELEASE MEASURES Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch Personal precautions: damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Emergency procedures:

Personal protective equipment:

(nitrile). Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust

respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. **Environmental precautions:**

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE Precautions for safe handling: Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition. Conditions for safe storage: Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store under inert gas (e.g. Argon). Store in refrigerator. Storage incompatibilities: Combustible substances, Store away from oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment

Respiratory protection:Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.Hand protection:Nitrile gloves.Eye protection:Safety glasses.Skin and body protection:Lab coat.

No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Very pale yellow No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	61°C (142°F) No data available No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log Pow)	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition temper Flammability or exp Lower: Upper:	
Solubility(ies): Soluble: Methanol			

10. STABILITY AND REACTIVITY

Reactivity:	Not Available.
Chemical Stability:	Air sensitive. Heat sensitive. Light sensitive. Moisture sensitive.
Possibility of Hazardous Reactions:	No hazardous reactivity has been reported.
Conditions to avoid:	Air sensitive. Exposure to air. Exposure to light. Exposure to moisture. Heat sensitive. Light sensitive.
Incompatible materials: Hazardous Decomposition Products:	Moisture sensitive. Strong oxidizing agents No data available

11. TOXICOLOGICAL INFORMATION

5-Bromo-5-nitro-1,3-dioxane	TCI AMERICA		Page 4 of 5
RTECS Number: JG9650000			
Acute Toxicity: orl-rat LD50:455 mg/kg	ipr-rat LD50:31 mg/kg		
Skin corrosion/irritation: skn-rat 2500 ug/24H			
Serious eye damage/irritation: No data available			
Respiratory or skin sensitization: No data available			
Germ cell mutagenicity: No data available			
Carcinogenicity:			
No data available			
IARC: No data available	NTP: No data available	OSHA:	No data available
Reproductive toxicity: No data available			
Routes of Exposure: Symptoms related to exposure: Overexposure may result in serious illness blistering. Skin contact may result in rednes Potential Health Effects: Skin and eye contact may result in irritation		l by itchin	g, scaling, reddening, or occasionally
Target organ(s):	No data available		
12. ECOLOGICAL INFORMATION			
Ecotoxicity Fish: Crustacea: Algae:	No data available No data available No data available		
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow)	No data available No data available No data available No data available		
Soil adsorption (Koc): Henry's Law: constant (PaM³/mol)	No data available No data available		
13. DISPOSAL CONSIDERATIONS			
Disposal of product:	Recycle to process if possible. It is the generator's responsibility rules and regulations. You may be able to dissolve or mix may chemical incinerator equipped with an afterburner and scrubby assistance but does not replace these laws, nor does compliade regulatory compliance according to the law. US EPA guideling Waste are listed in 40 CFR Parts 261. The product should not water ways, or the soil.	aterial with per syster ance in a les for Ide	a combustible solvent and burn in a n. This section is intended to provide coordance with this section ensure ntification and Listing of Hazardous
Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containe Observe all federal, state and local regulations when disposir		substance.
14. TRANSPORT INFORMATION			
DOT (US)	Non-hazardous for transportation.		
ΙΑΤΑ	Non-hazardous for transportation.		

TCI AMERICA

14. TRANSPORT INFORMATION

IMDG

Non-hazardous for transportation.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:			
Not Listed			
Not Listed			

State Regulations

State Right-to-Know

Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

Other Information

NFPA Rating:		HMIS Classification:	
Health:	2	Health:	2
Flammability:	0	Flammability:	0
Instability:	0	Physical:	0
International Inve	ntories		
WHMIS hazard cla	ass:	D2A: Materials causing other toxic effects. (Very Toxic) D2B: Materials causing other toxic effects. (Toxic)	
Canada: DSL		On DSL	,
EC-No:		250-001-7	

16. OTHER INFORMATION

Revision date: 10/06/2014

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.