Safety Data Sheet (SDS)

Revision Number: 3.0	Last updated March 31, 202
1. Product and Company Iden	ntification_
Product Name:	mBBr; [Monobromobimane] UltraPure Grade
Manufacturer/Supplier:	AnaSpec, Inc.
	www.anaspec.com
	34801 Campus Drive
	Fremont, CA 94555
	Tel: 510-791-9560
	Fax: 510-791-9572
	Email: service@anaspec.com
Catalog Number	AS-81433
Unit Size	25mg

2. Hazards Identification

Emergency Overview: We do recommend handling all chemicals with caution. Use proper protective equipment when handling chemicals. The toxicological properties of this material have not been fully investigated. Use appropriate procedures to prevent opportunities for direct contact with skin or eyes and to prevent inhalation.

GHS Hazard Classification: Not a dangerous substance or mixture according to GHS GHS Physical Hazards N/A

GHS Health and Environmental Hazards: N/A

GHS Signal Words: N/A

GHS Hazard Statements: N/A

GHS Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapours/spray

P280: Wear protective gloves/ protective clothing/eye protection
P302+P350 If ON SKIN- gently wash with plenty of soap and water
P305+P351+P338: If in eyes, rinse cautiously with water for several minutes.

Remove contact lenses if possible. Continue Rinsing.

Potential Health Effects for:

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Good hygiene practice requires that exposure is avoided and that suitable control measures be used in an occupational setting.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Skin: In case of contact, immediately wash skin with soap and copious amount of water.

Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Chronic Exposures: No information available. We recommend limiting prolonged exposure.

Target Organs: N/A

HMIS Classification:

Health Hazard: 1 Flammability: 0 Physical Hazard: 0

NFPA Rating:

Health Hazard: 1 Fire: 0 Reactivity Hazard: 0

3. Composition

Ingredients/Components:

Chemical Name mBBr; [Monobromobimane]

Molecular formula: $C_{10}H_{11}BrN_2O_2$

Molecular weight: 271.1 CAS-No 71418-44-5 EC-No N/A

$$H_3C$$
 N
 CH_2Br

No ingredients are hazardous according to OSHA criteria

4. First Aid Measures

Inhalation:	If dust is inhaled, remove from contaminated area.		
	Encourage patient to blow nose to ensure clear passage of breathing.		
	If irritation or discomfort persists seek medical attention.		
Ingestion:	If swallowed do NOT induce vomiting.		
	If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to		
	maintain open airway and prevent aspiration.		
	Observe the patient carefully.		
	Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably		
	drink.		
	Seek medical advice.		
Skin:	If skin or hair contact occurs:		
	Flush skin and hair with running water (and soap if available).		
	Seek medical attention in event of irritation.		
Eyes:	If this product comes in contact with the eyes:		
·	Wash out immediately with fresh running water.		
	Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the		
	eyelids by occasionally lifting the upper and lower lids.		
	If pain persists or recurs seek medical attention.		

Extinguishing madia.	<u>ures</u>	Water spray or fog.
Extinguishing media:		Alcohol resistant foam.
		Dry chemical powder.
		BCF (where regulations permit).
		Carbon dioxide
		Curoni dioxide
Special firefighting procedures:		Alert Emergency Responders and tell them location and nature of
		hazard.
		Wear breathing apparatus plus protective gloves.
		Prevent, by any means available, spillage from entering drains or water course.
		Use water delivered as a fine spray to control fire and cool adjacent area.
		DO NOT approach containers suspected to be hot.
		Cool fire exposed containers with water spray from a protected
		location.
		If safe to do so, remove containers from path of fire.
		Equipment should be thoroughly decontaminated after use.
Unusual fire and explos	sions hazards:	Emits toxic fumes under fire conditions
6. Accidental Release	Measures	
Spill response		ll ignition sources.
		all spills immediately.
		tact with skin and eyes.
		ersonal contact by using protective equipment.
		ean up procedures and avoid generating dust.
~ .		suitable, labeled container for waste disposal
α , \cdot	LA VOID ALL	personal contact, including inhalation.
Containment		antine alathing rahan sials of assessment
Containment	Wear prot	ective clothing when risk of exposure occurs.
Containment	Wear prot Use in a w	vell-ventilated area.
Containment	Wear prot Use in a w DO NOT	vell-ventilated area. enter confined spaces until atmosphere has been checked.
Containment	Wear prot Use in a w DO NOT DO NOT	rell-ventilated area. enter confined spaces until atmosphere has been checked. allow material to contact humans, exposed food or food utensils.
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Engineering controls PPE 9. Physical and Chemi Physical State	even when particu mutual friction.	ntilation is required where solids are handled as powders or crystals; ulates are relatively large, a certain proportion will be powdered by on should be designed to prevent accumulation and re-circulation of		
9. Physical and Chemi		on should be designed to provent accumulation and re-circulation of		
9. Physical and Chemi	particulates in the			
9. Physical and Chemi	If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of: (a): particle dust respirators, if necessary, combined with an absorption cartridge; (b): filter respirators with absorption cartridge or canister of the right type; (c): fresh-air hoods or masks Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting.			
9. Physical and Chemi				
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9. Physical and Chemi	Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to efficiently remove the contaminant.			
-	Use personal prote			
Physical State				
Odour	powder Not available			
Solubility in Water	N/A			
Specific Gravity		Not available		
PH	Not available			
Boiling Point	Not available			
Melting Point	Not available			
Flash Point	N/A			
Vapor Pressure:	N/A			
Vapor Density:	N/A			
10. Stability and Reac				
Thermal Decomposition	<i>1</i>	No data available		
Dangerous Products of	Decomposition	No data available		
Dangerous Reactions		COx, NOx when burned		
Keep container tightly cand kept upright. Store		ventilated place. Containers which are opened must be carefully resealed.		
11. Toxicological Info				
RTECS Number	<u>rmation</u>	N/A		

Toxicity

No information available.

Although ingestion is not thought to produce harmful
effects, the material may still be damaging to the
health of the individual following ingestion, especially
where pre-existing organ (e.g. liver, kidney)
damage is evident. In an occupational setting however,
ingestion of insignificant quantities is not thought to be
cause for concern.
Not available
No significant acute toxicological data identified
N/A
N/A

Reproductive Toxicity:

No information available

12. Ecological Information

No information available.

13. Disposal Considerations

All waste must be handled in accordance with local, state and federal regulations. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

14. Transport Information

Hazard Class	N/A	
Identification Number	N/A	
Packing Group	N/A	
Proper Shipping Name (DOT)	N/A	

15. Regulatory Information

California Proposition 65: N/A

US TSCA (Toxic Substance Control Act): N/A

US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act: N/A

US SARA Title III (Superfund Amendments and Reauthorization Act: N/A

US Other: N/A

EC EINICS (European Inventory of Existing Commercial Chemical Substances) Number: N/A

EC Risk Statements: N/A

Other Country Regulations: N/A

16. Other Information

It is not intended for food, drug, household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The

above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. AnaSpec shall not be held liable for any damage resulting from handling or from contact with the above product.