



Safety Data Sheet

Bromomethane

www.advancedspecialtygases.com

Section 1: Product and Company Identification

Advanced Specialty Gases
135 Catron Dr. Reno, NV 89512
775-356-5500

Product Code: Bromomethane

Section 2: Hazards Identification



Danger

Hazard Classification:

Acute Aquatic Toxicity (Category 1)
Acute Oral Toxicity (Category 3)
Chronic Aquatic Toxicity (Category 1)
Eye Effects (Category 2.B)
Gases Under Pressure
Germ Cell Mutagenicity (Category 2)
Specific target organ toxicity (Repeated Exposure) (Category 2)
Specific target organ toxicity (Single Exposure) (Category 3)

Hazard Statements:

Causes eye irritation
Contains gas under pressure; may explode if heated
May cause damage to organs through prolonged or repeated exposure
May cause respiratory irritation;
Suspected of causing genetic defects
Toxic if swallowed
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

Wash thoroughly after handling.
[In case of inadequate ventilation] wear respiratory protection.
Do not eat, drink or smoke when using this product.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/ vapors/spray..
Use only outdoors or in a well-ventilated area.
Wear protective gloves, protective clothing, eye protection and face protection.
Obtain special instructions before use.

Response:

If swallowed: Immediately call a poison center or doctor.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If exposed or concerned: Get medical advice/attention.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Protect from sunlight.

Store locked up.

Disposal:

Dispose of contents and/or container in accordance with applicable regulations.

Section 3: Composition/Information on Ingredients

CAS #
74-83-9

Chemical Substance	Chemical Family	Trade Names
Bromomethane	Halogenated, Aliphatic	Methyl bromide

Section 4: First Aid Measures

Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Flush skin with water.	Flush eyes with large amounts of water for at least 15 minutes	Rinse mouth with water. Seek medical attention immediately. Do not give anything by mouth to an unconscious person.	Move to fresh air	Not available

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Regular dry chemical, regular foam, water	Carbon dioxide carbon monoxide halogenated compounds carbonyl halides	<ul style="list-style-type: none"> ▪ Use self-contained breathing apparatus

Section 6: Accidental Release Measures

Personal Precautions	Environmental Precautions	Methods for Containment
Always wear recommended personal protective equipment	Toxic to aquatic life. Do not allow to contaminate waterways.	Stop leak if possible without risk and provide ventilation.

Methods for Cleanup	Other Information
Not available	Not available

Section 7: Handling and Storage

Handling	Storage
Store and use with adequate ventilation. Firmly secure cylinders upright to keep them from falling or being knocked over. Screw valve protection cap firmly in place by hand. Store only where temperature will not exceed 125F (52C). Store full and empty cylinders separately. Use a first-in, first-out inventory system to prevent storing full cylinders for long periods.	Do not get liquid in eyes, on skin, or clothing. Protect cylinders from damage. Use a suitable hand truck to move cylinders; do not drag, roll, slide, or drop. Open valve slowly. Close cylinder valve after each use; keep closed even when empty. If valve is hard to open, discontinue use and contact your supplier.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

20 ppm (80 mg/m3) OSHA ceiling (skin) 5 ppm (19 mg/m3) OSHA TWA (skin) (vacated by 58 FR 35338, June 30, 1993) 1 ppm ACGIH TWA (skin) NIOSH TWA (lowest feasible concentration)

Engineering Controls

No specific controls are needed.

Eye Protection	Skin Protection	Respiratory Protection
Not available	Not available	Use self-contained breathing apparatus

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Liquid gas	Colorless	Clear	N/A	Liquid	Sweet odor	Burning

Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Closed cup: 536.85C (998.3F)	III	Not available	537C (998.6F)	15%	10%

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity
3.5C (38.3F)	-93.66C (-136.6F)	1250 mmHg @ 20 C	3.3	1.7 @ 0 C	Ca.17.5 g/l at 68 F (20 C) Note: Methyl bromide	N/A	Not Available	N/A	Not available

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
95	C-H3-Br	0.248 lb/ft3	N/A	N/A	Not available	

Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Normally stable	Normally stable	Not available

Hazardous Decomposition Products	Possibility of Hazardous Reactions
Carbon dioxide, carbon monoxide, halogenated compounds, carbonyl halides	Will not polymerize.

Section 11: Toxicology Information

Acute Effects

Oral LD50	Dermal LD50	Inhalation
Rat 214 mg/kg	Subcutaneous Rat 135 mg/kg	Respiratory tract irritation

Eye Irritation	Skin Irritation	Sensitization
Irritation	Harmful when absorbed through the skin. Irritation.	Acute toxicity, Category 3, oral; H301: Toxic if swallowed. Acute toxicity, Category 3, inhalation; H331: : Toxic if inhaled. Skin irritation, Category 2; H315: Causes skin irritation. Eye irritation, Category 2; H319: Causes serious eye irritation. Specific Target Organ Toxicity (single exposure), Category 3; H335: May cause respiratory irritation. Germ cell mutagenicity, Category 2; H341: Suspected of causing genetic defects. Specific Target Organ Toxicity (repeated exposure), Category 2; H373: May cause damage to organs through prolonged or repeated exposure.

Chronic Effects

Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Classified + (Proven.) by NIOSH. A4 (Not classifiable for humans or animals.) by ACGIH, 3 (Not classifiable for humans.) by IARC	Classified 3 by European Union.	Not Available	No data

Section 12: Ecological Information

Fate and Transport

Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Fish toxicity: Acute EC50 400 ug/L Fresh water Fish - Medaka, high-eyes - Oryzias latipes - 28 to 35 days 96 hours Invertebrate toxicity: Acute EC50 2.6 to 3.5 ppm Fresh water Daphnia - Water flea - Daphnia magna - <24 hours 48 hours Algal toxicity: Not Available Phyto toxicity: Not Available Other toxicity: Not Available	Not Available	Low risk	Not Available

Section 13: Disposal Considerations

Disposal must comply with federal, state, and local disposal or discharge laws.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Methyl bromide	UN1062	2.3	N/a	N/a	Forbidden	Forbidden	N/A

Canadian Transportation of Dangerous Goods

Shipping Name	UN Number	Class	Packing Group / Risk Group
Methyl bromide	UN1062	2.3	Not available

Section 15: Regulatory Information

U.S. Regulations

CERCLA Sections	SARA 355.30	SARA 355.40
1000 RQ	Not available	Not regulated

SARA 370.21

Acute	Chronic	Fire	Reactive	Sudden Release
Yes	No	No	No	Yes

SARA 372.65

Not available

OSHA Process Safety

Not available

State Regulations

CA Proposition 65

California Proposition 65 - This product contains, or may contain, a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm.

Canadian Regulations

WHMIS Classification

AD1

National Inventory Status

US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Listed	Not listed.	Not determined.

Section 16: Other Information

NFPA Rating

HEALTH=2 FIRE=1 REACTIVITY=0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard