

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BROMOACETIC ACID

CAS Number: 79-08-3

1. IDENTIFICATION:

Product Code : 92030

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:**Hazard classification****Health hazards**

Acute toxicity : Category 2

Acute toxicity : Category 3

Acute toxicity : Category 3

Skin irritation : Sub-category 1A

Serious eye damage : Category 1

Skin sensitisation : Category 1

Short-term (acute) aquatic hazard : Category 1

Labels elements :**Hazard symbol** :**Signal word** : Danger**Hazard statement**

Fatal if swallowed.
Toxic in contact with skin or if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Very toxic to aquatic life.

Precautionary statement**Prevention**

Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed. Ground/ bond container and receiving equipment.



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- Response** : Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools. Take precautionary measures against static discharge.
: IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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 SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Storage** : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Disposal** : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Other hazards which do not result in GHS classification** : Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
Bromoacetic acid	79-08-3	NLT 98.0%	Yes

4. FIRST AID MEASURES:

- General information** : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
- Ingestion** : Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
- Inhalation** : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.
Get medical attention if symptoms persist.
- Skin contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Most important symptoms/effects, acute and delayed** : Toxic if inhaled. Irritating to eyes, respiratory system and skin.
- Indication of immediate medical attention and special treatment needed** : Symptoms may be delayed. Treat symptomatically.

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5. FIRE FIGHTING MEASURES:**General information** : No data available**Suitable (and unsuitable) extinguishing media****Suitable extinguishing media** : Foam, dry powder or carbon dioxide.**Unsuitable extinguishing media** : For this substance/mixture no limitations of extinguishing agents are given.**Special protective equipment and precautions for firefighters****Special firefighting procedures** : Fight fire from a protected location. Move containers from fire area if you can do so without risk.**Special protective equipment for fire-fighters** : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.**6. ACCIDENTAL RELEASE MEASURES:****Personal precautions, protective equipment and emergency procedures** : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.**Methods and material for containment and cleaning up** : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.**Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.**Environmental precautions** : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.**7. HANDLING AND STORAGE:****Precautions for safe handling** : Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.**Conditions for safe storage, including any incompatibilities** : Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.



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8. EXPOSURE CONTROLS PERSONAL PROTECTION:**Control parameters****Appropriate engineering**

controls : No data available

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/face protection : Wear safety glasses with side shields (or goggles).

Hand protection : Chemical resistant gloves.

Other : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.

Hygiene measures : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : Colorless to white to yellow and Faint orange to orange powder or crystals or Solid.

Odor : No data available

Solubility : No data available

Formula : C₂H₃BrO₂

Molecular Weight : 138.95 g/mol

Specific Gravity : 1.934 g/cm³

pH : No data available

% Volatiles by volume @ 21C (70F) : No data available

Boiling Point : 208 °C

Melting Point : 47 - 49 °C

Flash Point : 113 °C

Vapor Density (Air=1) : No data available

Vapor Pressure (mm Hg) : 0.21 hPa (25 °C) Method: Regulatio

Evaporation Rate (BuAc=1) : No data available

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10. STABILITY AND REACTIVITY:

	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Reactivity	: The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical stability	: Material is stable under ambient conditions..
Possibility of hazardous reactions	: Hazardous reactions : Violent reactions possible with: Oxidizing agents alkalines Reducing agents Aluminium acids rubber various metals.
Conditions to avoid	: Strong heating.
Incompatible materials	: No data available.
Hazardous decomposition products	: In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

Inhalation Product	LD50 Oral - Rat - 50 mg/kg Remarks: (RTECS) Behavioral:Somnolence (general depressed activity). Behavioral:Rigidity (includes catalepsy). Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) Acute toxicity estimate Oral - 50 mg/kg (ATE value derived from LD50/LC50 value) : Acute toxicity estimate Inhalation - 4 h – 3,1 mg/l - vapour (Expert judgement) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract Acute toxicity estimate Dermal – 300.1 mg/kg (Expert judgement) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: Remarks: Causes severe burns. Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Serious eye damage/eye irritation Product	Eyes - Chicken eye : Result: Causes serious eye damage. - 10 s (OECD Test Guideline 438) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Respiratory or skin sensitization Product	Maximisation Test - Guinea pig : Result: positive (OECD Test Guideline 406) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Carcinogenicity Product	: No data available
IARC Monographs on the Evaluation of Carcinogenic	: No data available

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Risks to Humans**US. National Toxicology
Program (NTP) Report on
Carcinogens**

: No data available

**US. OSHA Specifically
Regulated Substances (29
CFR 1910.1001-1050**

: No data available.

Germ cell mutagenicity

Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: positive

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

: Result: negative

Test Type: Ames test Test system: S. typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Species: Rat Cell type: Bone marrow

Application Route: Oral

Method: OECD Test Guideline 475

Result: negative

In vitro Product

: No data available.

**Reproductive toxicity
Product**

: No data available.

**Specific target organ
toxicity - single exposure
Product**

: No data available.

**Specific target organ
toxicity - repeated
exposure Product**

: No data available.

Aspiration hazard Product

: No data available.

Other effects

: None known.

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12. ECOLOGICAL INFORMATION:**Ecotoxicity****Acute hazards to the aquatic environment**

Fish Product	LC50 (Danio rerio (zebra fish)): 103 mg/l End point: mortality Exposure time: 96 h : Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Aquatic invertebrates Product	EC50 (Daphnia magna (Water flea)): 42 mg/l End point: Immobilization Exposure time: 48 h : Test Type: static test Method: OECD Test Guideline 202 GLP: yes

Chronic hazards to the aquatic environment

Fish Product	NOEC: \geq 100 mg/l End point: Growth inhibition Exposure time: 28 d Species: Danio rerio (zebra fish) : Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 215 GLP: yes
Aquatic invertebrates Product	NOEC: 3.2 mg/l Exposure time: 21 d : Species: Daphnia magna (Water flea) Test Type: semi-static test Analytical monitoring: yes Remarks: (ECHA)
Toxicity to Aquatic Plants Product:	EC50 (Pseudokirchneriella subcapitata): 0.29 mg/l Exposure time: 96 h : Test Type: static test Method: OECD Test Guideline 201 GLP: yes

Persistence and degradability

Biodegradation Product	Test Type: aerobic Inoculum: activated sludge, non-adapted Concentration: 13 mg/l : Result: Readily biodegradable. Biodegradation: 81 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: yes
BOD/COD ratio Product	: No data available.



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Bioaccumulative potential

- Bioconcentration factor (BCF) Product** : No data available.
- Partition coefficient n-octanol / water (log Kow) Product** : log Pow: < -2.3 (22 °C)
pH: 7
Method: OECD Test Guideline 107
GLP: yes
Remarks: Bioaccumulation is not expected.
- Mobility in soil** : No data available
- Other adverse effects** : Discharge into the environment must be avoided.

13. DISPOSAL CONSIDERATION:

- Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.
- Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 3425	Bromoacetic acid	8	II	Yes
IMDG	UN 3425	Bromoacetic acid	8	II	Yes
IATA	UN 3425	Bromoacetic acid	8	II	No

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

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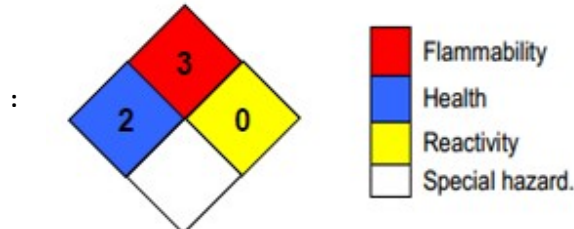
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16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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