
Safety Data Sheet

Bromofluoromethane

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Bromofluoromethane

CAS number: 373-52-4

Product code: VCBFM

Use/description of product: Feedstock, toxic volatile liquid

Company name: Valliscor LLC, 1110, NE Circle Blvd., Bldg. 11, Corvallis, OR 97330, USA

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA Hazard Communication):

- Acute toxicity – Category 2, Oral
- Acute toxicity – Category 1, Inhalation
- Acute toxicity – Category 1, Dermal
- Hazardous to the ozone layer, Category 1

2.2 GHS label elements, including precautionary statements

Pictogram	
Signal Word	Danger!
Hazard Statement(s)	
H300	Fatal if swallowed
H310	Fatal in contact with skin
H330	Fatal if inhaled
H420	Harms public health and the environment by destroying ozone in the upper atmosphere
Precautionary Statement(s)	
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P262	Do not get in eyes, on skin, or on clothing
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P284	In case of inadequate ventilation wear respiratory protection
P301+P316	If swallowed get medical help immediately
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Use an emergency eye-wash station. Remove contact lenses, if present and easy to do and continue rinsing for several minutes.
P302+P352	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
P304+P340	IN INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents / container with an approved waste disposal plan.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substance/Mixture: Substance

Formula : CH₂BrF

CAS No. : 373-52-4

Molecular weight: 112.93 g/mol

3.2 Hazardous Components

Component	Classification	Concentration
Bromofluoromethane	Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 1, H330	<= 100%

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of a dangerous area.

If inhaled

If breathed in, move the person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately call a POISON CENTER or a physician.

4.2 Most important symptoms and effects, both acute and delayed

Acute: No data available

Delayed: No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Alcohol resistant foam, dry chemical, water spray, carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition generates, hydrogen bromide gas, hydrogen fluoride.

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment (self-contained breathing apparatus). Keep people away from an upwind of spill/leak. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.2 Environmental precautions

Prevent product from entering drains. Prevent leakage or spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Contain spillage with dry sand / inert absorbent, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place into airtight container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use personal protective equipment. Do not breathe vapours/dust. Avoid contact with eyes, skin and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed when not in use.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with impervious gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious, flame retardant, and antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|----------------------------|-------------------|
| a) Physical state (20 °C): | Liquid |
| b) Form/Color: | None |
| c) Odor: | No data available |

d) pH:	No data available
e) Melting point:	No data available
f) Boiling point:	20 °C
g) Flash point:	No data available
h) Evaporation Rate:	No data available
i) Flammability (solid, gas):	No data available
j) Upper/lower flammability or explosive limits:	No data available
k) Vapor pressure:	No data available
l) Vapor density:	Not data available
m) Density:	1.76 g/ml
n) Water solubility:	No information available
o) Partition coefficient:	Not available
p) Auto-ignition temperature:	No data available
q) Decomposition temperature:	No data available
r) Viscosity:	No data available
s) Explosive properties:	No data available
t) Oxidizing properties:	No data available

10. STABILITY AND REACTIVITY

10.1 Chemical stability

Stable under recommended storage conditions.

10.2 Possibility of hazardous reactions

No data available

10.3 Conditions to avoid

No data available

10.4 Incompatible materials

Strong oxidizing agents, Strong bases.

10.5 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: Hydrogen bromide, hydrogen fluoride

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Dermal toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Reproductive toxicity

No data available

Target organ(s)

No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Disposal of product

Contact a licensed professional waste disposal service to dispose of this material. The product should not be allowed to enter the environment, drains, water ways, or the soil.

13.2 Disposal of contaminated packaging

Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

13.3 Other considerations

Observe all federal, state, and local regulations when disposing of this product.

14. TRANSPORT INFORMATION

	UN Number	Proper Shipping Name	Class	Packing Group
DOT (US)	UN2810	TOXIC LIQUID, ORGANIC, N.O.S (Bromofluoromethane)	3 (6.1)	III
IATA	UN2810	TOXIC LIQUID, ORGANIC, N.O.S (Bromofluoromethane)	3 (6.1)	III
IMDG	UN2810	TOXIC LIQUID, ORGANIC, N.O.S (Bromofluoromethane)	3 (6.1)	III

15. REGULATORY INFORMATION

International inventories

TSCA	Not listed
Canada (DSL)	Not listed
EU (EINECS)	No information available
EU (ELINCS)	No information available
Japan (ENCS)	No information available

Federal regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

State Right-to-Know Regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

16. OTHER INFORMATION

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.