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## Dibromofluoromethane Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DIBROMODIFLUOROMETHANE

CAS number: 75-61-6

Product code: VCDBDFM

Use / description of product: Feedstock

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

Telephone: (+1)-541-286-5082

Emergency Phone: (+1)-541-286-8436

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### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

#### 2.2 GHS Label elements, including precautionary statements

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Formula : CBr<sub>2</sub>F<sub>2</sub>

Molecular Weight : 209.82 g/mol

CAS-No. : 75-61-6

Component	Classification	Concentration
Dibromodifluoromethane		
		<= 100%

For the full text of the H-Statements mentioned in this Section, see Section 16.

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### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

General advice

Move out of dangerous area

**If Inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration/CPR.

**In case of skin contact**

Wash off with soap and plenty of water

**In case of eye contact**

Flush eyes with water as a precaution

**If swallowed**

Never give anything by mouth to an unconscious person. Rise mouth with water.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

no data available

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**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

No data available

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information**

no data available

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**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

For personal protection see section 8.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Handle and open container with care.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Components with workplace control parameters**

Component	CAS No.	Value	Control Parameters	Basis
Dibromodifluoromethane	75-61-6	TWA	100 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Upper Respiratory Tract irritation Liver damage		
		TWA	100 ppm or 860 mg/m <sup>3</sup>	USA. Occupational exposure limits (OSHA) – Table Z-1 Limits for Air Contaminants

		The value in mg/m3 is approximate.		
		TWA	100 ppm or 860 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	100 ppm or 860 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

**8.2 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**

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with 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**

Complete suit protecting against chemicals – impervious 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**

Respiratory protection no required. For nuisance exposures use type OV/AG (US) or type AXBEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

- a) Appearance Form: liquid, colorless
- b) Odor: no data available

c) Odor Threshold:	no data available
d) pH:	no data available
e) Melting point/freezing point: °F)	Melting point/range: -142 to -141 °C (-224 to -222 °F)
f) Initial boiling point and boiling range:	22-23 °C (72-73 °F)
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:	881.585 hPa (661.243 mm Hg) at 20 °C (68 °F) 2,721.954 hPa (2,041.633 mm Hg) at 55 °C (131 °F)
l) Vapor density:	8.41
m) Relative density:	2.297 g/mL at 25 °C (77 °F)
n) Water solubility:	no data available
o) Partition coefficient n-octanol/water:	no data 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

**9.2 Other safety information**

Relative vapor density 8.41

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

no data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

no data available

**10.5 Incompatible materials**

zinc, sodium/sodium oxides, potassium, aluminium

**10.6 Hazardous decomposition products**

Hazardous decomposition products under fire conditions – carbon oxides, hydrogen bromide gas, hydrogen fluoride

Other decomposition products – No data available

In the event of fire: see section 5

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**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

LC50 Inhalation – Mouse – 2 hr – 140,000 mg/m<sup>3</sup>

Remarks: Behavioral: Rigidity (includes catalepsy). Liver: Other changes. Kidney, Ureter, Bladder: Other Changes.

Dermal: no data available

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: PA7525000

Lung irritation, chest pain, pulmonary edema, liver injury may occur. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach – Irregularities – Based on Human Evidence

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**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

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**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

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**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

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**14. TRANSPORT INFORMATION****DOT (US)**

UN number: 1941                      Class: NONE                      Packing group: III  
Proper shipping name: Dibromodifluoromethane  
Reportable Quantity (RQ):

Poison Inhalation Hazard: Nor

**IMDG**

UN number: 1941                      Class: 9                      Packing group: III                      EMS-No: F-A, S-A  
Proper shipping name: Dibromodifluoromethane

**IATA**

UN number: 1941                      Class: NONE                      Packing group: III  
Proper shipping name: Dibromodifluoromethane

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**15. REGULATORY INFORMATION****SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

Dibromofluoromethane (CAS-No: 75-61-6, Revision Date 1993-04-24)

**Pennsylvania Right To Know Components**

Dibromofluoromethane (CAS-No: 75-61-6, Revision Date 1993-04-24)



**New Jersey Right To Know Components**

Dibromodifluoromethane (CAS-No: 75-61-6, Revision Date 1993-04-24)

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**16. OTHER INFORMATION**

**Full text of H-Statements referred to under sections 2 and 3.**

Acute Tox. Acute toxicity

H302 Harmful if swallowed.

**HMIS Rating**

Health hazard: 0

Chronic Health Hazard: \*

Flammability: 0

Physical Hazard 0

**NFPA Rating**

Health hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0