CAS-No.: 106-95-6 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier 1.1.

Product form : Substance

CAS-No. : 106-95-6 Product code : B-00109

Chemical structure

Synonyms : 3-Bromo-1-propene

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Bio-Chem Chemicals 5455, Nicholson Road Science Market, Ambala Cantt. 13001 Haryana (India) +91-829541953

info@biofinechemical.com wwwbiofinechemical.com

1.4. **Emergency telephone number**

Emergency number +91 99921 51495 (10.00am- 06.30pm) (Office Hours)

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, H225

Category 2

Acute toxicity (oral),

H301

Category 3

Skin corrosion/irritation,

H314

Category 1B

Hazardous to the aquatic H400

environment — Acute

Hazard, Category 1

Full text of H statements : see section 16

Safety Data Sheet

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11

T; R23

T; R25

C; R34

N; R50

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Hazard pictograms (CLP)









GHS02

GHS05

GHS06

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.

H301 - Toxic if swallowed.

H314 - Causes severe skin burns and eye damage.

H400 - Very toxic to aquatic life.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P301+P310 - IF SWALLOWED: Immediately call a doctor.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a doctor.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : ALLYL BROMIDE FOR SYNTHESIS

CAS-No. : 106-95-6

Full text of R- and H-statements: see section 16

3.2. Mixtures

Not applicable

Safety Data Sheet

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER/doctor.

First-aid measures after skin contact : Get immediate medical advice/attention. Wash with plenty of water/....

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : Rinse mouth. Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

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

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after ingestion : Toxic if swallowed.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray. Unsuitable extinguishing media : Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory

protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open

flames. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Very toxic to aquatic life.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Collect spillage.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Keep away from sources of ignition - No smoking. Use only non-sparking tools. Avoid contact with skin and eyes. Do not breathe vapours. Take precautionary

measures against static discharge.

Safety Data Sheet

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed

areas with mild soap and water before eating, drinking or smoking and when leaving

work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Ground/bond container and receiving equipment.

Storage conditions : Keep in fireproof place. Keep container tightly closed.

Incompatible materials : Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves

Eye protection : Chemical goggles or face shield
Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Molecular mass : 120.98 g/mol Colour : Clear Colorless.

Odour : unpleasant.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : -119 °C

Freezing point : No data available

Boiling point : 70 - 71 °C

Flash point : -1 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable

Highly flammable liquid and vapour.

Safety Data Sheet

Vapour pressure : No data available

Relative vapour density at 20 °C : 4.2

Relative density : No data available

Density : 1.39 g/cm³

Solubility : Water: 3.83 g/l at 25 °C

Log Pow : 1.79

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : 0.043 - 0.073 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates: Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Heat. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases. Thermal decomposition generates: Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed.

Skin corrosion/irritation : Causes severe skin burns and eye damage.
Serious eye damage/irritation : Serious eye damage, category 1, implicit

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified

Safety Data Sheet

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects

and symptoms

: Toxic if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

ALLYL BROMIDE FOR SYNTHESIS (106-95-6)

Log Pow 1.79

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information

recommendations

: Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

 UN-No. (ADR)
 : 1099

 UN-No. (IMDG)
 : 1099

 UN-No. (IATA)
 : 1099

 UN-No. (ADN)
 : 1099

Safety Data Sheet

UN-No. (RID) : 1099

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ALLYL BROMIDE
Proper Shipping Name (IMDG) : ALLYL BROMIDE
Proper Shipping Name (IATA) : Allyl bromide
Proper Shipping Name (ADN) : ALLYL BROMIDE
Proper Shipping Name (RID) : ALLYL BROMIDE

Transport document description (ADR) : UN 1099 ALLYL BROMIDE, 3 (6.1), I, (C/E), ENVIRONMENTALLY HAZARDOUS : UN 1099 ALLYL BROMIDE, 3 (6.1), I, MARINE POLLUTANT/ENVIRONMENTALLY

HAZARDOUS (-1°C c.c.)

Transport document description (IATA) : UN 1099 Allyl bromide, 3 (6.1), I, ENVIRONMENTALLY HAZARDOUS : UN 1099 ALLYL BROMIDE, 3 (6.1), I, ENVIRONMENTALLY HAZARDOUS : UN 1099 ALLYL BROMIDE, 3 (6.1), I, ENVIRONMENTALLY HAZARDOUS : UN 1099 ALLYL BROMIDE, 3 (6.1), I, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es) ADR

Transport hazard class(es) (ADR) : 3 (6.1)
Danger labels (ADR) : 3, 6.1



IMDG

Transport hazard class(es) (IMDG) : 3 (6.1)
Danger labels (IMDG) : 3, 6.1



IATA

Transport hazard class(es) (IATA) : 3 (6.1) Hazard labels (IATA) : 3, 6.1



ADN

Transport hazard class(es) (ADN) : 3 (6.1)
Danger labels (ADN) : 3, 6.1



Safety Data Sheet

Transport hazard class(es) (RID) : 3 (6.1) Danger labels (RID) : 3, 6.1



14.4. **Packing group**

Packing group (ADR) : 1 Packing group (IMDG) : 1 Packing group (IATA) : 1 Packing group (ADN) : 1 Packing group (RID) : 1

14.5. **Environmental hazards**

Dangerous for the environment : Yes Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

: FT1 Classification code (ADR) Limited quantities (ADR) : 0 : E0 Excepted quantities (ADR) Packing instructions (ADR) : P001 Mixed packing provisions (ADR) : MP7, MP17 : T14

Portable tank and bulk container

instructions (ADR)

Portable tank and bulk container special

provisions (ADR) Tank code (ADR)

Tank special provisions (ADR) : TU14, TU15, TE21

Vehicle for tank carriage : FL Transport category (ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV13, CV28

: TP2

: L10CH

Special provisions for carriage - Operation : S2, S22

(ADR)

Hazard identification number (Kemler No.) : 336

Orange plates

336 1099

Tunnel restriction code (ADR) : C/E EAC code : 2WE APP code : A(fl)

- Transport by sea

Limited quantities (IMDG) : 0 : E0 Excepted quantities (IMDG) Packing instructions (IMDG) : P001 Tank instructions (IMDG) : T14

Tank special provisions (IMDG) : TP2, TP13

Safety Data Sheet

EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D
Stowage category (IMDG) : B
Stowage and handling (IMDG) : SW2
Flash point (IMDG) : -1°C c.c.

Properties and observations (IMDG) : Colourless to light yellow liquid with an irritating odour. Flashpoint: -1°C c.c.

Explosive limits: 4.4% to 7.3% Immiscible with water. Highly toxic if swallowed, by

skin contact or by inhalation.

- Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity : Forbidden

(IATA)

PCA packing instructions (IATA) : Forbidden
PCA max net quantity (IATA) : Forbidden
CAO packing instructions (IATA) : 361
CAO max net quantity (IATA) : 30L
ERG code (IATA) : 3P

- Inland waterway transport

Classification code (ADN) : FT1
Special provisions (ADN) : 802
Limited quantities (ADN) : 0
Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EP, EX, TOX, A

Ventilation (ADN) : VE01, VE02

Number of blue cones/lights (ADN) : 2

- Rail transport

Classification code (RID) : FT1

Limited quantities (RID) : 0

Excepted quantities (RID) : E0

Packing instructions (RID) : P001

Mixed packing provisions (RID) : MP7, MP17

Portable tank and bulk container : T14

instructions (RID)

Portable tank and bulk container special

provisions (RID)

: TP2

Tank codes for RID tanks (RID) : L10CH

Special provisions for RID tanks (RID) : TU14, TU15, TU38, TE21, TE22

Transport category (RID) : 1

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW13, CW28

Hazard identification number (RID) : 336

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

ALLYL BROMIDE FOR SYNTHESIS is not on the REACH Candidate List ALLYL BROMIDE FOR SYNTHESIS is not on the REACH Annex XIV List

Safety Data Sheet

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 2, significant hazard to water (Classification according to

AwSV; ID No. 5980)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BlmSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve liist van voor de : The substance is not listed

NIE I-IIMItatieve lijst van voor de

 $voortplanting\ giftige\ stoffen-Borstvoeding$

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen -

Vruchtbaarheid

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen - Ontwikkeling

The cubetenes is not listed

: The substance is not listed

: The substance is not listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be

followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Acute Tox. 3 (Oral) Acute toxicity (oral), Category 3

Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1

Flam. Liq. 2 Flammable liquids, Category 2
Skin Corr. 1B Skin corrosion/irritation, Category 1B
H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.
 R11 Highly flammable
 R23 Toxic by inhalation
 R25 Toxic if swallowed
 R34 Causes burns

Safety Data Sheet

R50 Very toxic to aquatic organisms

C Corrosive

F Highly flammable

N Dangerous for the environment

T Toxic

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product