

# Material Safety Data Sheet



## 1, 2-DIBROMOETHANE FOR SYNTHESIS

VERSION : 02  
DATE OF ISSUE : 26-08-2019  
SUPERSEDES : 01

Product Code : 60020

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### **1. Identification of the substance/mixture and of the company/undertaking**

#### **1.1. Product identifier**

**Trade name :** 1, 2-DIBROMOETHANE FOR SYNTHESIS

**Product code :** 60020

**Identification of the product :** 1, 2-Dibromoethane, Ethylene Dibromide

**CAS No :** 106-93-4

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

**Use :** Industrial. For professional use only.

#### **1.3. Details of the supplier of the safety data sheet**

**Company identification :** MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

Email : [info@molychem.net](mailto:info@molychem.net)

Works: Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503.

#### **1.4. Emergency telephone number**

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm).

### **2. Hazards identification**

#### **2.1. Classification of the substance or mixture**

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

Carcinogenicity, H350

Category 1B

Acute toxicity (dermal), H311

Category 3

Acute toxicity (inhal.), H331

Category 3

Acute toxicity (oral), H301

Category 3

Serious eye damage/eye irritation, H319

Category 2

Skin corrosion/irritation, H315

Category 2

Specific target organ toxicity — Single exposure, H335

Category 3,

Respiratory tract irritation

Hazardous to the aquatic environment — Chronic Hazard, H411

Category 2

Full text of H statements : see section 16

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

**Adverse physicochemical, human health and environmental effects**

No additional information available

## 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display**

**Extra classification(s) to display**

**Hazard pictograms :**



**Signal word :** Danger

**Hazard statements :** H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H350 - May cause cancer.

H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements :** P201 - Obtain special instructions before use.

P261 - Avoid breathing vapours, spray, dust, fume, gas.

P273 - Avoid release to the environment.

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

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or 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.

## 2.3. Other hazards

No additional information available

## 3. Composition/information on ingredients

**3.1. Substances :** 1,2-DIBROMOETHANE FOR SYNTHESIS

CAS-No. : 106-93-4

Substance.

Contains no other components or impurities which will influence the classification of the product.

## 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. Call a POISON CENTER/doctor if you feel unwell.

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First-aid measures after skin contact : Take off immediately all contaminated clothing. Wash with plenty of water/.... Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Obtain emergency medical attention.

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

Symptoms/effects : May cause cancer.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Toxic in contact with skin. Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Toxic if swallowed.

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

Treat symptomatically.

## 5. Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

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

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 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

Toxic to aquatic life with long lasting effects.

### 6.3. Methods and material for containment and cleaning up

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

### 6.4. Reference to other sections

No additional information available.

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### **7. Handling and storage**

#### **7.1. Precautions for safe handling**

Precautions for safe handling : Obtain special instructions before use. Avoid contact with skin and eyes. Do not breathe vapours. Use only outdoors or in a well-ventilated area. Take precautionary measures against static discharge. Provide good ventilation in process area to prevent formation of vapour.

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**

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

#### **7.3. Specific end use(s)**

No additional information available

### **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 safety glasses

Skin and body protection : Wear suitable protective clothing

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

### **9. Physical and chemical properties**

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

**Odour threshold** : 10 ppm

**pH** : No data available

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

**Melting point** : 8 - 11 °C

**Freezing point** : No data available

**Boiling point** : 131 - 132 °C

**Flash point** : No data available

**Auto-ignition temperature** : No data available

**Decomposition temperature** : No data available

**Flammability (solid, gas)** : No data available

**Vapour pressure** : 11 mm Hg (at 20°C)

**Relative vapour density at 20 °C** : 6.48

**Relative density** : No data available

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**Density** : 2.18 g/cm<sup>3</sup>

**Solubility** : Water: Very slightly soluble in cold water

**Log Pow** : No data available

**Viscosity, kinematic** : No data available

**Viscosity, dynamic** : No data available

**Explosive properties** : No data available

**Oxidising properties** : No data available

**Explosive limits** : No data available

### 9.2. Other information

No additional information available

## 10. Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Overheating. Direct sunlight.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled. Oral: Toxic if swallowed.

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer.

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

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Potential adverse human health effects and symptoms : Toxic if swallowed. Toxic in contact with skin.

## **12. Ecological information**

### **12.1. Toxicity**

Ecology - water : Toxic to aquatic life with long lasting effects.

### **12.2. Persistence and degradability**

Persistence and degradability May cause long-term adverse effects in the environment.

### **12.3. Bioaccumulative potential**

No additional information available

### **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

## **13. Disposal considerations**

### **13.1. Waste treatment methods**

Product/Packaging disposal

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

Ecology - waste materials : Hazardous waste due to toxicity.

## **14. Transport information**

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

### **14.1. UN number**

UN-No. (ADR) : 1605

UN-No. (IMDG) : 1605

UN-No. (IATA) : 1605

UN-No. (ADN) : 1605

UN-No. (RID) : 1605

### **14.2. UN proper shipping name**

Proper Shipping Name (ADR) : ETHYLENE DIBROMIDE

Proper Shipping Name (IMDG) : ETHYLENE DIBROMIDE

Proper Shipping Name (IATA) : Ethylene dibromide

Proper Shipping Name (ADN) : ETHYLENE DIBROMIDE

Proper Shipping Name (RID) : ETHYLENE DIBROMIDE

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Transport document description (ADR) : UN 1605 ETHYLENE DIBROMIDE, 6.1, I, (C/D), ENVIRONMENTALLY HAZARDOUS

Transport document description (IMDG) : UN 1605 ETHYLENE DIBROMIDE, 6.1, I, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 1605 Ethylene dibromide, 6.1, ENVIRONMENTALLY HAZARDOUS

Transport document description (ADN) : UN 1605 ETHYLENE DIBROMIDE, 6.1, I, ENVIRONMENTALLY HAZARDOUS

Transport document description (RID) : UN 1605 ETHYLENE DIBROMIDE, 6.1, I, ENVIRONMENTALLY HAZARDOUS

### 14.3. Transport hazard class(es)

**ADR-** Transport hazard class(es) (ADR) : 6.1

Danger labels (ADR) : 6.1

**IMDG-** Transport hazard class(es) (IMDG) : 6.1

Danger labels (IMDG) : 6.1

**ADN-** Transport hazard class(es) (ADN) : 6.1

Danger labels (ADN) : 6.1

**RID-** Transport hazard class(es) (RID) : 6.1

Danger labels (RID) : 6.1

### 14.4. Packing group

Packing group (ADR) : I

Packing group (IMDG) : I

Packing group (IATA) : Not applicable

Packing group (ADN) : I

Packing group (RID) : I

### 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-** Classification code (ADR) : T1

Special provisions (ADR) : 354

Limited quantities (ADR) : 0

Excepted quantities (ADR) : E0

Packing instructions (ADR) : P602

Mixed packing provisions (ADR) : MP8, MP17

Portable tank and bulk container instructions (ADR) : T20

Portable tank and bulk container special provisions (ADR) : TP2

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Tank code (ADR) : L10CH  
Tank special provisions (ADR) : TU14, TU15, TE19, TE21  
Vehicle for tank carriage : AT  
Transport category (ADR) : 1  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV1, CV13, CV28  
Special provisions for carriage – Operation (ADR) : S9, S14  
Hazard identification number (Kemler No.) : 66  
Orange plates :  
Tunnel restriction code (ADR) : C/D  
EAC code : 2X  
APP code : B  
**Transport by sea-** Special provisions (IMDG) : 354  
Packing instructions (IMDG) : P602  
Tank instructions (IMDG) : T20  
Tank special provisions (IMDG) : TP2, TP13, TP37  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-A  
Stowage category (IMDG) : D  
Stowage and handling (IMDG) : SW2  
Properties and observations (IMDG) : Colourless, volatile liquid. Highly toxic if swallowed, by skin contact or by inhalation.  
MFAG-No : 154  
**Air transport-** PCA Limited quantities (IATA) : Forbidden  
PCA limited quantity max net quantity (IATA): Forbidden  
PCA packing instructions (IATA) : Forbidden  
PCA max net quantity (IATA) : Forbidden  
CAO packing instructions (IATA) : Forbidden  
CAO max net quantity (IATA) : Forbidden  
ERG code (IATA) : 6L  
**Inland waterway transport-** Classification code (ADN) : T1  
Special provisions (ADN) : 354, 802  
Limited quantities (ADN) : 0  
Excepted quantities (ADN) : E0  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EP, TOX, A  
Ventilation (ADN) : VE02  
Number of blue cones/lights (ADN) : 2  
**Rail transport-** Classification code (RID) : T1

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Special provisions (RID) : 354  
Limited quantities (RID) : 0  
Excepted quantities (RID) : E0  
Packing instructions (RID) : P602  
Mixed packing provisions (RID) : MP8, MP17  
Portable tank and bulk container instructions (RID) : T20  
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, CW31  
Hazard identification number (RID) : 66  
**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable

## **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

1,2-DIBROMOETHANE FOR SYNTHESIS is not on the REACH Candidate List

1,2-DIBROMOETHANE FOR SYNTHESIS is not on the REACH Annex XIV List

### **15.1.2. National regulations**

#### **Germany**

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to water (Classification according to AwSV; ID No. 241)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### **Netherlands**

SZW-lijst van kankerverwekkende stoffen : 1,2-DIBROMOETHANE FOR SYNTHESIS is listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen –

Vruchtbaarheid : The substance is not listed

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NIET-limitatieve lijst van voor de  
voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

## **Denmark**

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

## **15.2. Chemical safety assessment**

No additional information available

## **16. Other information**

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

## **End of document**

**Prepared by: MOLYCHEM (INDIA)**

**For questions contact: MOLYCHEM**

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