

# **Safety Data Sheet**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ethyl 2-Bromopropionate

Compound ID: AG0034UC CAS Number: 535-11-5

Indentified uses: Laboratory chemicals, manufacture of chemical compounds

Company: Angene

Phone: 81777290

# 2. HAZARDS IDENTIFICATION

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids, (Category 3), H226 Acute toxicity, oral, (Category 3), H301 Skin corrosion/irritation, (Category 2), H315

Serious eye damage/eye irritation,(Category 1), H318

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

Signal Word danger

Hazard statements

H226 Flammable liquid and vapor

H301 Toxic if swallowed H315 Causes skin irritation

H318 Causes serious eye damage

Precautionary statements

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242 Use only non-sparking tools.

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P310 Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes.Remove contact

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

P405 Store locked up.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to in accordance with local regulation

# Hazards not otherwise classified (HNOC) or not covered by GHS - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Ethyl 2-Bromopropionate

CAS Number: 535-11-5
Molecular Formula: C5H9BrO2
Molecular Weight: 181,0300

Molecular Weight: 181.0300 g/mol

## 4. FIRST AID MEASURES

### **Description of first aid measures**

# **General advice**

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

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

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eve contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2 or section 11)

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

no data available

## **5. FIREFIGHTING MEASURES**

### Extinguishing media Suitable extinguishing media

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

### Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), Hydrogen bromide gas

### **Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **Further information**

no data available

# **6. ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### **Environmental precautions**

Do not let product enter drains.

## Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## **Reference to other sections**

For disposal see section 13.

# 7. HANDLING AND STORAGE

## **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

For precautions see section 2.

# Conditions for safe storage, including any incompatibilities

Inert atmosphere.

2-8°C.

# Specific end use(s)

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

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# **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, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) 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

Information on basic physical and chemical properties

Appearance / Form: liquid

Odor: no data available Odor Threshold: no data available pH: no data available Melting point: no data available Boiling point/range: 162.6°C at 760 mmHg Flash point: no data available Evapouration rate: no data available Flammability: no data available Upper/lower flammability: no data available explosive limits: no data available no data available Vapor pressure: Vapour density: no data available Relative density: no data available Water solubility: no data available Partition coefficient: no data available Auto-ignition temperature: no data available Decomposition Temp: no data available log Pow: no data available no data available Viscosity: Explosive properties: no data available Oxidizing properties: no data available

## **10. STABILITY AND REACTIVITY**

Other safety information

Reactivity: no data available

Chemical stability: Stable under recommended storage conditions.

no data available

Possibility of hazardous no data available

reactions

Conditions to avoid no data available Incompatible materials no data available Hazardous decomposition no data available

products

Other decomposition products: no data available In the event of fire: see section 5

# 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Classified based on available data. For more details, see section 2 Skin corrosion/irritation: Classified based on available data. For more details, see section 2 Serious eye damage/irritation Classified based on available data. For more details, see section 2 Respiratory or skin sensitisation Classified based on available data. For more details, see section 2

Germ cell mutagenicity Classified based on available data. For more details, see section 2

Carcinogenicity:

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

is identified as probable, possible of confirmed fluthan earchingen by faire.

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.

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.

No component of this product present at levels greater than or equal to 0.1%

OSHA: is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Specific target organ toxicity - n

single exposure

NTP:

no data available

Specific target organ toxicity - no data available

repeated exposure

Aspiration hazard no data available Additional Information no data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

investigated.

## 12. ECOLOGICAL INFORMATION

Toxicity no data available Persistence and degradability Bioaccumulative potential no data available Mobility in soil no data available

Results of PBT and vPvB PBT/vPvB assessment not available as chemical safety assessment not

assessment required/not conducted

Other adverse effects no data available

## 13. DISPOSAL CONSIDERATIONS

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

Contact a licensed professional waste disposal service to dispose of this

material.

Contaminated packaging Dispose of as unused product.

### 14. TRANSPORT INFORMATION

### 14.1 UN number

ADR/RID: UN 1992 IMDG: UN 1992 IATA-DGR: UN 1992

14.2 UN proper shipping name

ADR/RID: liquid, corrosive, n.o.s (Ethyl 2-Bromopropionate)
IMDG: liquid, corrosive, n.o.s (Ethyl 2-Bromopropionate)
IATA: liquid, corrosive, n.o.s (Ethyl 2-Bromopropionate)

14.3 Transport hazard class(es)

ADR/RID: 3(6.1) IMDG: 3(6.1) IATA-DGR: 3(6.1)

14.4 Packaging group

ADR/RID: III IMDG: III IATA-DGR: III

14.5 Environmental hazards

ADR/RID: - IMDG: - IATA-DGR: -

14.6 Special precautions for user

Further information: No data available

### 15. REGULATORY INFORMATION

No chemicals in this material are subject to the reporting requirements of

SARA 302: SARA Title III, Section 302.

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 Massachusetts Right To Know Components Pennsylvania Right To Know

New Jersey Right To Know

Components

Components

No components are subject to the Massachusetts Right to Know Act.

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.

### **16. OTHER INFORMATION**

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

Acute Health Hazard

Acute Tox. Acute toxicity Eye Irrit. Eye irritation Skin Irrit. Skin irritation

H226 Flammable liquid and vapor

Toxic if swallowed H301 Causes skin irritation H315

Causes serious eye damage H318

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Angene shall not be held liable for any damage resulting from handling or from contact with the above product. See invoice or packing slip for additional terms and conditions of sale.