

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

<b>Catalogue Number</b>	CS-AZ-00088
<b>Product Name</b>	Bromopropylate
<b>CAS No.</b>	18181-80-1
<b>Category</b>	Pesticide Standards
<b>Synonyms</b>	Not available
<b>Brand</b>	Clearsynth Labs Ltd.
<b>Identified uses</b>	Laboratory Chemicals
<b>Uses advised against</b>	Not available
<b>Company</b>	Clearsynth Labs Ltd. Mumbai, India
<b>Emergency Phone #</b>	+91-22-245045900
<b>REACH No.</b>	Not available

### SECTION 2: Hazards identification

**Disclaimer:** This is sample MSDS. Please email [sales@clearsynth.com](mailto:sales@clearsynth.com) for more details.

#### 2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Skin irritation (Category 2)

#### 2.2 Label Elements

**Signal Word:** Warning



#### Hazard Statement(s)

Code	Statement
H315	Causes skin irritation.
H400	Not available
H410	Not available

#### Precautionary Statement(s)

Code	Statement
P264	Wash hands thoroughly after handling.
P273	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P321	Specific treatment (see ... on this label).
P332+P317	If skin irritation occurs: Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Not available
P501	Dispose of contents/container in accordance with local/regional/national/international regulation

### SECTION 3: Composition / information on ingredients

#### 3.1 Substance

Component : Bromopropylate

CAS Number : 18181-80-1

Molecular Formula : C<sub>17</sub>H<sub>16</sub>Br<sub>2</sub>O<sub>3</sub>

Molecular Weight : 428.12

Parent Chemical : -

Synonyms : Not available

Concentration : Not available

### SECTION 4: First aid measures

#### SECTION 4: First-aid measures

##### 4.1 Description of first aid measures

General advice: Seek medical attention if symptoms occur or persist. Show this Safety Data Sheet to the physician.

Inhalation: Move person to fresh air. If breathing is difficult, seek medical attention.

Skin contact: Remove contaminated clothing and shoes. Wash skin with soap and water. Seek medical attention if irritation develops.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing. Seek medical attention if irritation persists.

Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical attention.

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

Not available.

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

Treat symptomatically. No data available.

### SECTION 5: Firefighting measures

#### SECTION 5: Fire-fighting measures

##### 5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: Not available.

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

Hazardous combustion products: Not available.

##### 5.3 Advice for firefighters

Wear self-contained breathing apparatus (SCBA) and full protective gear. Prevent fire-fighting water from entering drains or watercourses.

### SECTION 6: Accidental release measures

#### SECTION 6: Accidental release measures

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

Avoid contact with skin and eyes. Avoid breathing dust/vapors/mist. Use appropriate personal protective equipment.

##### 6.2 Environmental precautions

Avoid release to the environment. Prevent entry into drains, sewers, or waterways.

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

Contain spill. Collect spilled material using suitable means (e.g., sweep/scoop carefully to minimize dust). Place in a suitable, labeled container for disposal. Clean contaminated area.

##### 6.4 Reference to other sections

See Section 8 for personal protective equipment and Section 13 for disposal considerations.

### SECTION-7: Handling and storage

#### SECTION 7: Handling and storage

##### 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Avoid breathing dust/vapors/mist. Wash hands thoroughly after handling.

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

Store in a tightly closed container in a cool, dry, well-ventilated place. Protect from moisture. Keep away from incompatible materials.

Incompatible materials: Not available.

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

Pesticide standard. For laboratory/research use only unless otherwise specified. No data available.

### SECTION 8: Exposure controls / personal protection

#### SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limits: Not available.

Biological limit values: Not available.

### 8.2 Exposure controls

Engineering controls: Use local exhaust ventilation or general ventilation to minimize exposure.

Personal protective equipment (PPE):

- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Protective gloves. Wear protective clothing as appropriate.
- Respiratory protection: If ventilation is inadequate, use appropriate respiratory protection.
- Hygiene measures: Wash hands after handling. Remove contaminated clothing and wash before reuse.

Environmental exposure controls: Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available

Property	Value
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

### SECTION 10: Stability and reactivity

#### SECTION 10: Stability and reactivity

##### 10.1 Reactivity

No data available.

##### 10.2 Chemical stability

Stable under recommended storage conditions. No data available.

##### 10.3 Possibility of hazardous reactions

No data available.

##### 10.4 Conditions to avoid

Not available.

##### 10.5 Incompatible materials

Not available.

##### 10.6 Hazardous decomposition products

Not available.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

- Acute toxicity: /LABORATORY ANIMALS: Acute Exposure/ A primary eye irritation test on bromopropylate (90% pure) was performed by using 3 male and 3 female New Zealand white rabbits. Irritation observed after the application of 100 mg of undiluted test material into the conjunctival sac consisted of reversible redness, chemosis and discharge in all rabbits and iridal involvement in one rabbit. The compound was given a descriptive rating "mildly irritant" in non-washed eyes and in washed eyes, with maximum average irritation scores of 9.3 and 3.3, respectively. However, the mean values of the scores calculated from the 24, 48 and 72 hour readings over all tested animals were 0.07 for iris lesions, 0.6 for redness, and 0.3 for edema of conjunctiva. According to the EEC Directive 83/467 the test substance is therefore classified as "non-irritant" to eyes. /LABORATORY ANIMALS: Acute Exposure/ A primary skin irritation test on bromopropylate (90% pure) was performed using 3 male and 3 female New Zealand white rabbits. Irritation observed on the skin after the application of 500 mg of test material moistened with 0.4 mL of saline consisted of grade 1 erythema in 5 out of 6 rabbits at the 1 hr reading time. The compound was given a descriptive rating "slight irritant". However, the mean values of the scores calculated from the 24, 48 and 72 hr readings over all tested animals were 0 for erythema and 0 for edema. According to the EEC Directive 83/467 the

test substance is therefore classified as "non-irritant" to skin.

- Skin corrosion/irritation: /LABORATORY ANIMALS: Acute Exposure/ A primary skin irritation test on bromopropylate (90% pure) was performed using 3 male and 3 female New Zealand white rabbits. Irritation observed on the skin after the application of 500 mg of test material moistened with 0.4 mL of saline consisted of grade 1 erythema in 5 out of 6 rabbits at the 1 hr reading time. The compound was given a descriptive rating "slight irritant". However, the mean values of the scores calculated from the 24, 48 and 72 hr readings over all tested animals were 0 for erythema and 0 for edema. According to the EEC Directive 83/467 the test substance is therefore classified as "non-irritant" to skin.

- Serious eye damage/eye irritation: /LABORATORY ANIMALS: Acute Exposure/ A primary eye irritation test on bromopropylate (90% pure) was performed by using 3 male and 3 female New Zealand white rabbits. Irritation observed after the application of 100 mg of undiluted test material into the conjunctival sac consisted of reversible redness, chemosis and discharge in all rabbits and iridal involvement in one rabbit. The compound was given a descriptive rating "mildly irritant" in non-washed eyes and in washed eyes, with maximum average irritation scores of 9.3 and 3.3, respectively. However, the mean values of the scores calculated from the 24, 48 and 72 hour readings over all tested animals were 0.07 for iris lesions, 0.6 for redness, and 0.3 for edema of conjunctiva. According to the EEC Directive 83/467 the test substance is therefore classified as "non-irritant" to eyes.

- Respiratory or skin sensitization: No data available.

- Germ cell mutagenicity: No data available.

- Carcinogenicity: No data available.

- Reproductive toxicity: No data available.

- STOT-single exposure: No data available.

- STOT-repeated exposure: /LABORATORY ANIMALS: Subchronic or Prechronic Exposure/ A group of 2 male and 2 female dogs received orally, by capsule, 1 g/kg/bw/day of bromopropylate for 30 days. A second group received 2 g/kg/day for 4 days, then 0.5 g/kg for a further 26 days. Diarrhea and vomiting occurred in dogs of both groups. During the first week the food intake was decreased and body weight was lost or the gain in weight was below normal. The results of a hematological examination were normal. Determination of organ weights did not indicate any dose-related changes. In both groups serum transaminase and alkaline phosphatase levels were increased by treatment and cytoplasmic swelling and fine vacuolation of hepatocytes was found. No mature spermatozoa were found in male animals but this may have been due to the age of the animals.

- Aspiration hazard: No data available.

Likely routes of exposure

- No data available.

Symptoms related to the physical, chemical and toxicological characteristics

- /LABORATORY ANIMALS: Acute Exposure/ ...Male Wistar rats received bromopropylate in one, three or five daily oral doses of 125, 250, and 500 mg/kg bw/day. ...The early effects observed consisted of hepatomegaly accompanied by an increase in the p-nitroanisole O-demethylase activity and hepatocyte proliferation. Hepatocyte proliferation was elevated during the total experimental period. Vacuolated cytoplasm and evident focal necrosis may suggest that the maximal increase in hepatocyte proliferation, preceding hepatomegaly, is at least partly related to a regenerative liver response to pesticides.

## SECTION 12: Ecological information

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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

No data available.

#### 12.6 Endocrine disrupting properties

No data available.

#### 12.7 Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### SECTION 13: Disposal considerations

##### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Do not discharge to drains or the environment.

Contaminated packaging: Dispose of as unused product. No data available.

### SECTION 14: Transport information

#### SECTION 14: Transport information

##### 14.1 UN number

Not available.

##### 14.2 UN proper shipping name

Not available.

##### 14.3 Transport hazard class(es)

Not available.

##### 14.4 Packing group

Not available.

##### 14.5 Environmental hazards

Not available.

##### 14.6 Special precautions for user

Not available.

##### 14.7 Maritime transport in bulk according to IMO instruments

Not available.

### SECTION 15: Regulatory information

### SECTION 15: Regulatory information

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

Not available.

### SECTION 16: Other information

SECTION 16: Other information

Product name: Bromopropylate

CAS No.: 18181-80-1

Catalog No.: CS-AZ-00088

Supplier: Clearsynth Labs Ltd., Mumbai, India

Emergency phone: +91-22-245045900

Disclaimer: The information provided is believed to be accurate based on available data; however, it is provided without warranty. Users are responsible for determining suitability for their particular application and for compliance with applicable regulations.

Revision date: Not available.

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