# 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>2-Bromopropane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat No.</td>
<td>AC107320000; AC107320010; AC107322500</td>
</tr>
<tr>
<td>Synonyms</td>
<td>Isopropyl bromide</td>
</tr>
<tr>
<td>Recommended Use</td>
<td>Laboratory chemicals</td>
</tr>
</tbody>
</table>

**Company**
- Fisher Scientific  
  One Reagent Lane  
  Fair Lawn, NJ 07410  
  Tel: (201) 796-7100

**Entity / Business Name**
- Acros Organics  
  One Reagent Lane  
  Fair Lawn, NJ 07410

**Emergency Telephone Number**
- For information in the US, call: 800-ACROS-01
- For information in Europe, call: +32 14 57 52 11
- Emergency Number, Europe: +32 14 57 52 99
- Emergency Number, US: 201-796-7100
- CHEMTREC Phone Number, US: 800-424-9300
- CHEMTREC Phone Number, Europe: 703-527-3887

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# 2. HAZARDS IDENTIFICATION

**DANGER!**
Flammable liquid and vapor. May impair fertility. May cause skin, eye, and respiratory tract irritation. Repeated exposure may cause skin dryness or cracking. Danger of serious damage to health by prolonged exposure.

**Appearance** Colorless, Light brown  
**Physical State** Liquid  
**odor** odorless

**Target Organs** Reproductive System

**Potential Health Effects**

**Acute Effects**

**Principle Routes of Exposure**
Eyes  
May cause irritation.

Skin  
May cause irritation. May be harmful in contact with skin. Repeated exposure may cause skin dryness or cracking.

Inhalation  
May cause irritation of respiratory tract. May be harmful if inhaled.

Ingestion  
May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects  
May impair fertility. Danger of serious damage to health by prolonged exposure.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions  
No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Haz/Non-haz</th>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2-Bromopropane</td>
<td>75-26-3</td>
<td>&gt;95</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Eye Contact**  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

**Skin Contact**  
Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

**Inhalation**  
Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Get medical attention immediately if symptoms occur.

**Ingestion**  
Do not induce vomiting. Obtain medical attention.

**Notes to Physician**  
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Flash Point**  
1°C / 33.8°F

**Method**  
No information available.

**Autoignition Temperature**  
No information available.

**Explosion Limits**  

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower</td>
<td>4.6 vol %</td>
</tr>
</tbody>
</table>

**Suitable Extinguishing Media**  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

**Unsuitable Extinguishing Media**  
No information available.

**Hazardous Combustion Products**  
No information available.

**Sensitivity to mechanical impact**  
No information available.

**Sensitivity to static discharge**  
No information available.
Specific Hazards Arising from the Chemical
Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>3</td>
<td>0</td>
<td>N/A</td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions
Should not be released into the environment.

Methods for Containment and Clean Up
Soak up with inert absorbent material. Keep in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Handling
Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use explosion-proof equipment. Do not breathe vapors/dust. Do not ingest. Take precautionary measures against static discharges.

Storage
Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area. Keep away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures
Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment.

Exposure Guidelines
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment

Eye/face Protection
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection
Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Liquid
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless, Light brown</td>
</tr>
<tr>
<td>odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available.</td>
</tr>
<tr>
<td>pH</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>224 mbar @ 20 °C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>59°C / 138.2°F@ 760 mmHg</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>-89°C / -128.2°F</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>251 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>1°C / 33.8°F</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.310</td>
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<tr>
<td>Solubility</td>
<td>No information available.</td>
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<tr>
<td>log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>122.99</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>C3 H7 Br</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability
Stable under normal conditions.

Conditions to Avoid

Incompatible Materials
Strong oxidizing agents, Strong bases

Hazardous Decomposition Products
Carbon monoxide (CO), Carbon dioxide (CO₂)

Hazardous Polymerization
Hazardous polymerization does not occur.

Hazardous Reactions
None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

<table>
<thead>
<tr>
<th>Component Information</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Bromopropane</td>
<td>Not listed</td>
<td>Not listed</td>
<td>31171 ppm (Mouse) 4 h</td>
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</tbody>
</table>

Irritation
No information available.

Toxicologically Synergistic Products
No information available.

Chronic Toxicity

Carcinogenicity
There are no known carcinogenic chemicals in this product
Sensitization  
No information available.

Mutagenic Effects  
No information available.

Reproductive Effects  
May impair fertility.

Developmental Effects  
No information available.

Teratogenicity  
No information available.

Other Adverse Effects  
See actual entry in RTECS for complete information.

Endocrine Disruptor Information  
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity  
Do not empty into drains.

<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Algae</th>
<th>Freshwater Fish</th>
<th>Microtox</th>
<th>Water Flea</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Bromopropane</td>
<td>Not listed</td>
<td>LC50 24h 150 mg/L (goldfish)</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Persistence and Degradability  
No information available

Bioaccumulation/ Accumulation  
No information available

Mobility  

<table>
<thead>
<tr>
<th>Component</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Bromopropane</td>
<td>1.9</td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods  
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

DOT  
UN-No  
UN2344

Proper Shipping Name  
BROMOPROPANES

Proper technical name  
(2-Bromopropane)

Hazard Class  
3

Packing Group  
II

TDG

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14. TRANSPORT INFORMATION

UN-No: UN2344  
Proper Shipping Name: BROMOPROPANES  
Hazard Class: 3  
Packing Group: II

IATA

UN-No: 2344  
Proper Shipping Name: BROMOPROPANES  
Hazard Class: 3  
Packing Group: II

IMDG/IMO

UN-No: 2344  
Proper Shipping Name: BROMOPROPANES  
Hazard Class: 3  
Packing Group: II

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>PICCS</th>
<th>ENCS</th>
<th>AICS</th>
<th>CHINA</th>
<th>KECL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Bromopropane</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>200-855-1</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>KE-03708 X</td>
<td></td>
</tr>
</tbody>
</table>

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)  Not applicable

SARA 313
Not applicable
SARA 311/312 Hazardous Categorization

- Acute Health Hazard: No
- Chronic Health Hazard: Yes
- Fire Hazard: Yes
- Sudden Release of Pressure Hazard: No
- Reactive Hazard: No

Clean Water Act
Not applicable

Clean Air Act
Not applicable

OSHA
Not applicable

CERCLA
Not Applicable

California Proposition 65
This product contains the following Proposition 65 chemicals:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>California Prop. 65</th>
<th>Prop 65 NSRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Bromopropane</td>
<td>75-26-3</td>
<td>Female Reproductive, Male Reproductive</td>
<td>-</td>
</tr>
</tbody>
</table>

State Right-to-Know
Not applicable

U.S. Department of Transportation
- Reportable Quantity (RQ): N
- DOT Marine Pollutant: N
- DOT Severe Marine Pollutant: N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

- Mexico - Grade: Serious risk, Grade 3

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
- B2: Flammable liquid
- D2A: Very toxic materials
16. OTHER INFORMATION

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Tel: (412) 490-8929

Creation Date
16-Sep-2010

Print Date
16-Sep-2010

Revision Summary
"***", and red text indicates revision

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS