



## **SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION**

Product Name:

Isobutyric acid 99%

Product Code: I06450

- Supplier:Pfaltz & Bauer, Inc.172 E. Aurora StreetWaterbury, CT 06708 USA
- <u>Phone:</u> 203-574-0075
- FAX: 203-574-3181
- Emergency Phone:INFOTRAC, US: 1-800-535-5053INFOTRAC, INTERNATIONAL: +1-352-323-3500

#### **SECTION 2: HAZARDS IDENTIFICATION**

Statement of Hazard: Corrosive, Environmentally hazardous, Flammable liquid, Irritant

<u>Acute Health Hazard:</u> Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, skin absorption and inhalation.

Chronic Health Hazard: Not Available

<u>HMIS Rating:</u> H: 2 F: 2 P: 0

<u>NFPA Rating:</u> H: 2 F: 2 R: 0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

<u>GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):</u> <u>GHS Classification in accordance with Regulation (EC) No 1272/2008:</u>

Acute toxicity, dermal (Category 4), H312 Acute toxicity, inhalation (Category 4), H332 Acute toxicity, oral (Category 4), H302 Flammable liquids (Category 3), H226 Hazardous to the aquatic environment, acute toxicity (Category 3), H402 Serious eye damage/eye irritation (Category 2A), H319 Skin corrosion/irritation (Category 1A), H314 Pictogram:

Signal Word:



Danger

<u>Hazard Statement(s):</u>	H226 Flammable liquid and vapor. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H402 Harmful to aquatic life.
Precautionary Statement(s):	<ul> <li>P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.</li> <li>P260 Do not breathe dust/fume/gas/mist/vapors/spray.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.</li> <li>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P302+P352 IF ON SKIN: wash with plenty of soap and water.</li> <li>P303+P361+P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.</li> <li>P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P332+P313 IF SKIN irritation occurs: Get medical advice/attention.</li> </ul>

## **SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS**

Chemical Name:Isobutyric acid 99%Synonyms:2-Methylpropionic acidCAS Number:79-31-2MDL Number:MFCD00002658

EINECS Number: 201-195-7

Beilstein Registry Number: 635770

Molecular Formula:	(CH <sub>3</sub> ) <sub>2</sub> CHCOOH
Molecular Weight:	88.11
Content:	As specified in product name.

## **SECTION 4: FIRST AID MEASURES**

Eye Contact:	Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.
Skin Contact:	Wash skin with soap and water. If irritation persists, seek medical attention.
Ingestion:	Do not induce vomiting. Seek medical attention.
Inhalation:	Move to a fresh air environment. Contact a physician if breathing becomes difficult.

## **SECTION 5: FIRE FIGHTING MEASURES**

Flash Point (°C):	55	
Explosion Limits:	Lower, % by volume:	2
	Upper, % by volume:	10
<u>Auto Ignition</u> Temperature (°C):	Not Available	
Extinguishing Media:	Carbon dioxide, dry che spray	mical powder, alcohol-resistant foam, or water
Protective Equipment:	Wear self-contained resp	pirator and fully protective impervious suit.
Specific Hazards:	May emit hazardous fum	nes under fire conditions.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Protection:	Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and contact proper authorities if needed. Keep unprotected persons away.
Environmental Protection:	Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer

# ronmental Protection: with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

## **SECTION 7: HANDLING and STORAGE**

Handling and Storage:	Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away. Store in a tightly closed container in a dry, well-ventilated place.
<u>Sensitivities:</u>	Not Available

Storage Temperature (°C): 15 to 30

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls: Use product in a well ventilated area or under a fume hood. Use proper lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.

- Eye Protection:Wear appropriate protective eyeglass or chemical safety goggles. Make<br/>sure that there is an eyewash station in your vicinity.
- Skin Protection: Wear impervious gloves and protective clothing.

<u>Respiratory Protection:</u> Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

Exposure Limits:	<u>Country</u>	<u>Source</u>	<u>Type</u>	<u>Value</u>
	USA	ACGIH	TWA	Not Available
	USA	OSHA	STEL	Not Available
	USA	OSHA	PEL	Not Available

## **SECTION 9: PHYSICAL and CHEMICAL PROPERTIES**

<u>Appearance:</u>	Clear colorless liquid
Odor:	Strong unpleasant
Odor Threshold:	Not Available
Flash Point (ºC):	55
Auto Ignition Temperature (°C):	Not Available
UEL % by Volume:	10
LEL % by Volume:	2

Melting Point (°C):	-47
Boiling Point (°C):	153-154
Evaporation Rate:	Not Available
pH Value:	2.5 at 100g/L
Density (g/cm <sup>3</sup> ):	0.95
Refractive Index (n <sup>20</sup> D):	1.393
<u>Viscosity:</u>	Not Available
Solubility in Water:	Soluble
Solubility in Other:	Soluble in Alcohol, Chloroform, Ether; Slightly soluble in Carbon tetrachloride
Vapor Pressure (mmHg):	1.5
<u>Vapor Density (Air=1):</u>	3.04

## **SECTION 10: STABILITY and REACTIVITY**

Stability:	Stable under normal temperatures and pressures.
Incompatibility:	Stong oxidizing agents
<u>Reactivity:</u>	Product may react with incompatible materials to release other hazardous substances.
Conditions to Avoid:	Heat, flame, sparks, other ignition sources.
Hazardous Decomposition Products:	Carbon oxides

# SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Reference:	NQ4375000	
Target Organs:	Not Available	
Toxicity Data:	Oral Rat LD50 mg/kg: Dermal Rabbit LD50 mg/kg:	266.00 475.00
Carcinogenicity:	National Toxicology Program (NTP) lis Not Available	ted:

International Agency for Research on Cancer (IARC) listed: Not Available

Potential Symptoms:

Not Available

## **SECTION 12: ECOLOGICAL INFORMATION**

Toxicity:

Not Available

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

#### **SECTION 14: TRANSPORT INFORMATION**

DOT Shipping Name:	Isobutyric Acid
DOT UN Number:	UN2529
DOT Hazard Class:	Class 3, 8
DOT Packing Group:	PGIII
Reportable Quantity:	5000 lbs
IMDG Shipping Name:	Isobutyric Acid
IMDG UN Number:	UN2529
IMDG Hazard Class:	Class 3, 8
IMDG Packing Group:	PGIII
Marine Pollutant:	No
IATA Shipping Name:	Isobutyric Acid
IATA UN Number:	UN2529
IATA Hazard Class:	Class 3, 8
IATA Packing Group:	PGIII

## **SECTION 15: REGULATORY INFORMATION**

United States

Toxic Substance Control Act (TSCA) listed: Yes Superfund Amendments and Reauthorization Act (SARA 302) listed: No Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No Superfund Amendments and Reauthorization Act (SARA 313) listed: No

#### European Union

European Inventory of Existing Chemical Substances (EINECS): 201-195-7

GHS Classification in accordance with Regulation (EC) No 1272/2008: Yes

<u>Canada</u>

Canadian Domestic Substances List (DSL) listed: Yes

Canadian Non-Domestic Substances List (NDSL) listed: No

## **SECTION 16: OTHER INFORMATION**

#### Date Prepared: 6/21/2023

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgement to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.