

Date: 3/1/2019
Product Code ISOBUTANE

SAFETY DATA SHEET

1. Identification

Product Name: Isobutane

Product Code: ISOBUTANE

SDS Date: 3/1/2019

Address: BVV

1251 Frontenac Rd. Ste 150

Naperville IL 60563

Phone: (331) 281-0154

CHEMTEL: (800) 255-3924

2. Hazard(s) Identification

Hazard Classification

Flammable (Category 1) Gases Under Pressure

Pictogram



Signal Word Danger

Hazard Statement

Contains gas under pressure; may explode if heated Extremely flammable gas

Precautionary

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Response

Eliminate all ignition sources if safe to do so.

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Storage:

Protect from sunlight.

Store in well-ventilated place.

3. Composition/Information On Ingredients

Name	CAS	Chemical Family	Trade Names
ISOBUTANE	75-28-5	Hydrocarbons, Aliphatic, Saturated	2-METHYL PROPANE; TRIMETHYL METHANE; UN 1969; C4H10

4. First-aid Measures

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If

breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical

attention.

In Case of Skin Contact: If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115 F; 41-46 C).

DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get

immediate medical attention.

In Case of Eye Contact:

Contact with liquid: Immediately flush eyes with plenty of water for at least 15 minutes. Then get

immediate medical attention.

If large amount is swallowed, get medical attention.

Note to Physicians:

For inhalation consider oxygen.

5. Fire-fighting Measures

Extinguishing Media: Carbon dioxide, regular dry chemical Large fires: Flood with fine water spray.

Products of Combustion: Carbon monoxide, carbon dioxide, water and toxic and irritating fumes.

Protection of Firefighters: Any self-contained breathing apparatus with a full facepiece

6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Keep unnecessary people away, isolate hazard area and deny entry. Do not touch spilled material.

Ventilate closed spaces before entering.

Environmental Precautions: Avoid heat, flames, sparks and other sources of ignition.

Methods and Materials for Containment and Clean Up:

Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition. Contact emergency personnel. Avoid ignition sources.

7. Handling and Storage

Safe Handling: Store and handle in accordance with all current regulations and standards. Grounding and bonding

required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.110. Subject to storage regulations:

U.S. OSHA 29 CFR 1910.101.

Safe Storage: Keep separated from incompatible substances.

8. Exposure Controls/Personal Protection

Name CAS

Isobutane 75-28-5
OSHA TWA ACGIH TWA
1000 ppm 1000 ppm

Engineering Control: Handle only in fully enclosed systems.

Eye/Face Protection: For the gas: Eye protection not required, but recommended. For the liquid: Wear splash resistant

safety goggles. Contact lenses should not be worn. Provide an emergency eye wash fountain and

quick drench shower in the immediate work area.

Skin Protection:

For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold

insulating clothing.

Respiratory Protection: Any self-contained breathing apparatus with a full facepiece.

9. Physical and Chemical Properties

Appearance: Isobutane Colorless Odor: Isobutane Petroleum odor Not Available **Odor Threshold:** Isobutane pH: Isobutane Not Applicable **Melting/Freezing Point:** -254°F (-159°C) Isobutane **Initial Boiling Point/Range:** Isobutane 10°F (-12°C) Flash Point: Isobutane -126°F (-88°) (CC) Isobutane Not Applicable **Evaporation Rate:** Flammability: Isobutane Not Available 0.084 **Upper Explosion Limit:** Isobutane **Lower Explosion Limit:** Isobutane 0.018 **Vapor Pressure:** 3.1 atm @ 21°C Isobutane 2 (Air=1) **Vapor Density:** Isobutane **Relative Density:** Not Available Isobutane Water Solubility: Isobutane Slightly Soluble **Partition Coefficient:** Not Available Isobutane **Auto Ignition Temp:** Isobutane 864°F (462°C) Viscosity: Isobutane Not Applicable

10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressure.

Possibility of Hazardous

Reactions:

Will not polymerize.

Conditions to Avoid: Stable at normal temperatures and pressure.

Incompatible Materials: Oxidizing materials, halogen compounds

Hazardous Decomposition

Products:

Oxides of carbon

11. Toxicological Information

Name: CAS: Isobutane 75-28-5

Oral LC50, 1 hr, rat = 285,000 ppmv

Dermal LD50: Not Available

Skin Corrosion/Irritation: Liquid: blisters, frostbite

Serious Eye Damage/Eye Irritation: Liquid: frostbite, blurred vision

Respiratory or Skin Sensitization:Respiratory tract irritation, central nervous system depression, difficulty

Germ Cell Mutagenicity:
Carcinogenicity:
Reproductive:
breathing
Not available
Not available

Developmental Effects: No Data

12. Ecological Information

Name	CAS	Toxicity
Isobutane	75-28-5	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available

13. Disposal Considerations

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

14. Transportation Information

Proper Shipping Name: ISOBUTANE

Hazard Class 2.1

Identification Number: UN1969

Packing Group: N/A

Label Flammable Gas

Ship: UN1969 ISOBUTANE CLASS 2.1 PG II

15. Regulatory Information

Name	CAS
Isobutane	75-28-5
SARA 355.30/355.40	Not regulated.
SARA 372.65	Not regulated.
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CERCLA Not regulated.

PROP 65	Not regulated.	
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16. Other Information, Including Date of Preparation or Last Revision

CDC D. L.	2/4/2040
SDS Date:	3/1/2019

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