



(n-Butyl Iodide)

DATE PREPARED: 8/12/2015

Section 1. Product and Company Identification

Product Name n-Butyl lodide
CAS Number 542-69-8

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER

CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

OSHA Hazards: Flammable liquid

GHS Classification

Flammable liquids (Category 3)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Specific Target Organ Toxicity - Single Exposure (Category 3)
Acute Aquatic Toxicity (Category 3)

GHS Label Elements

Pictograms:



Signal word: WARNING

Hazard and precautionary statements

Hazard Statements

H226: Flammable liquid and vapor.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H402: Harmful to aquatic life.

Precautionary Statements

P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking



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P233: Keep container tightly closed

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/light equipment

P242: Use only non-sparking tools

P243: Take precautionary measures against static discharge

P280: Wear protective gloves/eye protection/face protection

P303+361+353: If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P370+378: In case of fire: Use dry chemical: foam: carbon dioxide; others with caution for extinction

P403+235: Store in a well ventilated place. Keep cool

P501: Dispose of contents/container in accordance to all regulations.

P264: Wash thoroughly after handling

P332+313: If skin irritation occurs: Get medical advice/attention

P362: Take off contaminated clothing and wash before reuse. Discard contaminated shoes.

P305+351+338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing

P337+313: If eye irritation persists get medical advice/attention

P261: Avoid breathing fume/gas/mist/vapors/spray

P271: Use only in a well-ventilated area

P304+340: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312: Call a poison center or doctor/physician if you feel unwell

P403+233: Store in a well ventilated place. Keep container tightly closed

P273: Avoid release to the environment

Section 3. Composition / Information on Ingredients

Common Name n-Butyl lodide

Synonym(s) lodobutane; 1-lodobutane

Formula CH₃(CH₂)₃I CAS Number 542-69-8

COMPONENT	CAS NUMBER	CONCENTRATION
n-Butyl lodide	542-69-8	100%

Section 4. First Aid Measures

Flammable. Harmful in contact with skin and if swallowed. Causes blisters, Symptoms: burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting. Cancer suspect agent. The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye: Causes eye burns. May cause irreversible eye injury.

Skin: Causes skin irritation.



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Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: Causes respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Material may be irritating to mucous membranes and upper respiratory tract.

Chronic: Overexposure may cause delayed kidney injury.

Emergency and First Aid: Not to be construed as a medical recommendation

Eyes: Irrigate thoroughly with water for 15 minutes.

Lungs: Remove to fresh air; administer artificial respiration or oxygen as needed.

Ingestion: Harmful if swallowed. Consult physician.

Skin: Flush with water for 15 minutes. Remove & wash contaminated clothing and shoes. Get

medical aid if irritation develops or persists

Section 5. Firefighting Measures

Flash Point (Closed Cup): 33°C

Extinguishing Media: Dry chemical: foam: carbon dioxide; others with caution. Water may be ineffective. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray.

Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions. Forms explosive mixtures in air.

Special Fire Fighting Procedures: Self-contained breathing apparatus; if possible, when in area of fire, keep drums cool with spray or use foam.

Unusual Fire and Explosion Hazards: Dangerous when heated to decomposition. It emits highly toxic iodide fumes. Will react with steam to produce toxic and acidic corrosive fumes. Vapor may travel considerable distance to source of ignition and flash back. Emits toxic fumes under fire conditions.

Section 6. Accidental Release Measures

Steps to be taken in case material is released or spilled: Shut off all sources of ignition, evacuate area. Absorb spill with activated carbon or inert material (eg. vermiculite, sand or earth). Containerize, transport outdoors. Clean spills immediately. Ventilate area and wash down. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Section 7. Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.



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Storage: Store in a cool, dry place out of direct sunlight. Store in tightly sealed drums. Open carefully. Keep away from heat, sparks, and flame. Keep away from sources of ignition. Light sensitive.

Section 8. Exposure Controls / Personal Protection

Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels. Facilities must have safety shower and eye bath. Use non-sparking tools. Mechanical exhaust required.

Respiratory: In most vapor concentrations: self-contained breathing apparatus. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Ventilation: Mechanical and local. Maintain level of less than 4 ppm. **Protective Gloves:** Rubber, compatible chemical-resistant gloves.

Eyes: Goggles & Full face shield.

Hygiene: Wash thoroughly after handling. Wash contaminated clothing before reuse.

Other: Apron and rubber shoes to prevent contamination of clothing.

Section 9. Physical and Chemical Properties

Physical State: Liquid
Formula Weight: 184.02
Boiling Point: 130°C - 131°C.
Freezing/Melting Point: -103°C
Flash Point: 92°F (33.33°C)
Refractive Index: 1.499
Specific Gravity: 1.671 (200)
Vapor Pressure: Moderate
Vapor Density: about five

Solubility in Water: practically insoluble **Percent Volatile:** approximately 100%

Appearance and Odor: Halide-ether like odor; clear and light yellow to red colored liquid

Section 10. Stability and Reactivity

Stability: Stable, Avoid excessive heat.

Incompatibility: Strong oxidizing agents and bases

Conditions to Avoid: High temperatures, mechanical shock, incompatible materials, light, ignition

sources

Hazardous decomposition products: CO, CO₂, HI

Hazardous polymerization: Will not occur



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Section 11. Toxicological Information

RTECS: EK4400000

Beilstein Registry Number: 1420755

MDL number: MFCD00001098

 LC_{50} inhalation rat: $LC_{50} = 6100 \text{ mg/m}^3 / 4\text{h}$ LD_{50} Intraperit. rat: $LD_{50} = 692 \text{ mg/kg}$ LD_{50} Intraperit. mouse: $LD_{50} = 101 \text{ mg/kg}$ Threshold Limit Value: Not established

References

Sax: 6,589 Merck: 10,1546

Carcinogenicity: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65

Section 12. Ecological Information

Toxicity: no data available

Persistence and degradability: no data available Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available
Other adverse effects: no data available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Shipping: TSCA Listed

HMIS Rating Health: 3 Flammability: 3

Flammability: 3
Reactivity: 0

Personal Protection: K [airline hood or mask, gloves, full protective suit, boots]

Freight Classification: UN1993, Flammable liquids N.O.S., Class 3, PG III

PIH: Not PIH ERG: 128



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Section 15. Regulatory Information

WGK (Water Danger/Protection): CAS# 542-69-8: Not available

Canada: CAS# 542-69-8 is listed on Canada's DSL List **US Federal:** CAS# 542-69-8 is listed on the TSCA Inventory.

US Classification and Label Text

Indication of Danger: Flammable. Harmful.

Risk Statements: Flammable. Harmful by inhalation.

Safety Statements: Keep away from sources of ignition - no smoking. Wear suitable protective

clothing, gloves, and eye/face protection.

United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of

the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes NDSL: No

Section 16. Other Information

Disclaimer: 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.

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