

# SAFETY DATA SHEET

Version: v2  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Isobutyl Isothiocyanate  
Product Number : I140612  
Brand : aladdin  
CAS-No. : 591-82-2

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

### 1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION  
Address : 14078 Meridian Parkway,  
Riverside, CA. 92518  
Telephone : +1 (833) 552-7181  
Fax : no data available

### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300  
CHEMTREC®, Outside the USA :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids: Category 3  
Acute toxicity (Oral): Category 3  
Acute toxicity (Inhalation): Category 3  
Skin corrosion/irritation: Category 2  
Serious eye damage/eye irritation: Category 2A  
Specific target organ toxicity - single exposure: Category 3 (respiratory tract irritation)

### 2.2 GHS Label elements, including precautionary statements

<b>Pictogram</b>	
<b>Signal word</b>	Danger
<b>Hazard statement(s)</b>	
H226	Flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H301+H331	Toxic if swallowed or if inhaled
<b>Precautionary statement(s)</b>	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
P233	Keep container tightly closed.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and ...] thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P332+P313	IF SKIN irritation occurs: Get medical advice/attention.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use ... to extinguish.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to an approved waste disposal plant.
P301+P310+P330	IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER/doctor/.
P304+P340+P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms	: Isothiocyanic Acid Isobutyl Ester
Formula	: C5H9NS
Molecular weight	: 115.19
CAS No.	: 591-82-2
EC-NO.	: 209-733-2

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Component	Classification	Concentration
<b>Isobutyl Isothiocyanate</b>		
	no data available	≥97%(GC)

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

no data available

#### If inhaled

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

#### In case of skin contact

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention

#### In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### If swallowed

Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

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

no data available

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

no data available

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## SECTION 5: Firefighting measures

## 5.1 Extinguishing media

### Suitable extinguishing media

Dry chemical, foam, carbon dioxide Water (It may scatter and spread fire.)

### Unsuitable extinguishing media

no data available

## 5.2 Special hazards arising from the substance or mixture

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume

## 5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.

## 5.4 Further information

no data available

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## SECTION 6: Accidental release measures

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

Water (It may scatter and spread fire.)

### 6.2 Environmental precautions

Prevent product from entering drains.

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

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations

### 6.4 Reference to other sections

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent

generation of vapour or mist.Keep away from heat/sparks/open flame/hot surfaces.-No smoking.Take measures to prevent the build up of electrostatic charge.Use explosion-proof equipment.Wash hands and face thoroughly after handling.Use a closed system if possible.Use a ventilation, local exhaust if vapour or aerosol will be generated. Advice on safe handling: Avoid contact with skin, eyes and clothing.

## 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed.Store in a cool, dark and well-ventilated place. Store under inert gas.Protect from moisture.Store locked up. Store away from incompatible materials such as oxidizing agents. Moisture-sensitive Packaging material: Comply with laws.Store at room temperature;Under Inert Atmosphere;cool.

## 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Install a closed system or local exhaust.Also install safety shower and eye bath

#### Personal protective equipment

##### Eye/face protection

Safety goggles.A face-shield, if the situation requires

##### Skin protection

Impervious gloves.

##### Body Protection

Impervious protective clothing.Protective boots, if the situation requires.

##### Respiratory protection

Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.Use respirators approved under appropriate government standards and follow local and national regulations

##### Control of environmental exposure

no data available

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |                    |                   |
|--------------------|-------------------|
| a) Appearance      | no data available |
| b) Odour           | no data available |
| c) Odour Threshold | no data available |

d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	164°C
g) Flash point	24°C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	0.95
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

## 9.2 Other safety information

no data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Spark, Open flame, Static discharge

### 10.5 Incompatible materials

Oxidizing agents

## 10.6 Hazardous decomposition products

Carbon monoxide, Carbon dioxide, Nitrogen oxides (NO<sub>x</sub>), Sulfur oxides

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

no data available

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## SECTION 12: Ecological information

### 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 Other adverse effects

no data available

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### SECTION 13:

#### 13.1 Disposal considerations

##### Product

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

##### Contaminated packaging

no data available

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### SECTION 14: Transport information

#### DOT (US)

UN number: 1992

Packing group: III

Class: 6.1

Proper shipping name: Flammable liquid, toxic, n.o.s.

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: no data available

#### IMDG

UN number: 1992

Packing group: III

EMS-No: no data available

Proper shipping name: Flammable liquid, toxic, n.o.s.

#### IATA

UN number: 1992

Packing group: III

Class: 6.1

Proper shipping name: Flammable liquid, toxic, n.o.s.

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### SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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ALADDIN SCIENTIFIC CORPORATION

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## SECTION 16: Other information

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