

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

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

#### 1.1 Product identifiers

Product name : 2,6-Dimethyl-4-heptanone

Product Number : D111077
Brand : aladdin
CAS-No. : 108-83-8

# 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), H226

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Warning

# 2.2 GHS Label elements, including precautionary statements

**Pictogram** 

**(\*)** 

Signal word

Hazard statement(s)

H226 Flammable liquid and vapor
H335 May cause respiratory irritation

Precautionary statement(s)



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P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources.	
	No smoking.	
P233	Keep container tightly closed.	
P240	Ground/bond container and receiving equipment.	
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.	
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].	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
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.	
P319	Get medical help if you feel unwell.	

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

# **SECTION 3: Composition/information on ingredients**

# 3.1 Substances

Synonyms : Diisobutyl ketone Isovalerone ; Diisobutyl ketone

Formula : C9H18O

Molecular weight : 142.24

CAS No. : 108-83-8

EC-NO. : no data available

Component	Classification	Concentration
2,6-Dimethyl-4-heptanone		
	no data available	≥97%, stabilized with BHT,mixture of isomers

### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures



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#### General advice

Consult a doctor. Present this safety technical manual to the on-site doctor.

#### If inhaled

If inhaled, please move the patient to fresh air. If breathing stops, perform artificial respiration. Consult a doctor.

#### In case of skin contact

Rinse with soap and plenty of water. Consult a doctor.

#### In case of eye contact

Be cautious and rinse your eyes with water.

#### If swallowed

Do not feed anything to unconscious individuals. Rinse your mouth with water. Consult a doctor.

### 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

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

#### Suitable extinguishing media

Dry powder and dry sand

Unsuitable extinguishing media

no data available

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

### 5.3 Advice for firefighters

If necessary, wear a self-contained breathing apparatus to put out the fire.

#### 5.4 Further information

Water spray can be used to cool unopened containers.

### **SECTION 6: Accidental release measures**

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### 6.2 Environmental precautions

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for



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disposal.

### 6.4 Reference to other sections

For disposal see section 13.

### SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

# 7.3 Specific end use(s)

no data available

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

### Eye/face protection

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Skin protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Body Protection**

 $Handle\ with\ gloves.\ Gloves\ must\ be\ inspected\ prior\ to\ use.\ Use\ proper\ glove$ 

removal technique (without touching glove's outer surface) to avoid skin contact

with this product. Dispose of contaminated gloves after use in accordance with

applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

### Respiratory protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the



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concentration and amount of the dangerous substance at the specific workplace.

#### Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

a) Appearance form: Liquid color: Colorless to light yellow

b) Odour no data available c) Odour Threshold no data available d) pH no data available

e) Melting point/freezing point  $-46.4^{\circ}\text{C}$  f) Initial boiling point and boiling range  $165-170^{\circ}\text{C}$  g) Flash point  $49^{\circ}\text{C}$ 

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 no data available

n) Water solubility It is insoluble in water, but miscible in most organic solvents such as ethanol

and ether.

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

### **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



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#### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Strong oxidizing agents, Strong acids

### 10.6 Hazardous decomposition products

no data available

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

LD50 Oral - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - 4 h - > 14,5 mg/l

(OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

### Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)

### Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)

### Respiratory or skin sensitisation

Maximization Test - Guinea pig Result: Does not cause skin sensitization. (OECD Test Guideline 406)

#### Germ cell mutagenicity

No data available Test Type: Ames test Test system: S. typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

### 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** 



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Repeated dose toxicity - Rat - male - Oral - NOAEL (No observed adverse effect level) - 2.000 mg/kg

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 30 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates Immobilization EC50 - Daphnia magna (Water flea) - 37,2 mg/l - 48 h

(OECD Test Guideline 202)

Toxicity to algae Growth inhibition EC50 - Pseudokirchneriella subcapitata (green algae) - 46,9 mg/l - 72 h

(OECD Test Guideline 201)

### 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 20 d Result: 88 % - Readily biodegradable. (OECD Test Guideline 301D)

### 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

#### **SECTION 13:**

### 13.1 Disposal considerations

#### **Product**

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

**Contaminated packaging** 



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Dispose of as unused product.

### **SECTION 14: Transport information**

DOT (US)

UN number: 1157 Packing group: III Class: 3

Proper shipping name: DIISOBUTYL Reportable Quantity(RQ): no data Poison Inhalation Hazard: no data

KETONE available available

Environmental Hazards: no

**IMDG** 

UN number: 1157 Packing group: III EMS-No: no data available

Proper shipping name: DIISOBUTYL KETONE

**IATA** 

UN number: 1157 Packing group: III Class: 3

Proper shipping name: DIISOBUTYL KETONE

### **SECTION 15: Regulatory information**

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

### **SECTION 16: Other information**

Prepared By Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION Email: QualityAssurance@aladdinsci.com

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