

Version: v1
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SAFETY DATA SHEET

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

1.1 Product identifiers

Product name : 2,2-Dimethylbutane
Product Number : D105773
Brand : aladdin
CAS-No. : 75-83-2

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

Identified uses : 仅供科研用途，不作为药物、家庭备用药或其它用途。

1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd
Address : 36 Xinjinqiao Road, Shanghai
Telephone : 400-620-6333
Fax : no data available

1.4 Emergency telephone number

Emergency Phone : 0532-83889090

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H225 Highly Flammable liquid and vapor
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H336 May cause drowsiness or dizziness
H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s)

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P273 Avoid release to the environment.

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P331

P301+P310

Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms

Formula

Molecular weight

CAS No.

EC-NO.

: Neohexane

: C6H14

: 86.18

: 75-83-2

: 200-906-8

Component	Classification	Concentration
2,2-Dimethylbutane	no data available	Standard for GC,≥99.5%(GC)

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

If inhaled

In case of skin contact

In case of eye contact

If swallowed

Consult a physician.Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If breathed in, move person into fresh air.If not breathing, give artificial respiration.Consult a physician.

Wash off with soap and plenty of water.Consult a physician.

Flush eyes with water as a precaution.

Do NOT induce vomiting.Never give anything by mouth to an unconscious person.Rinse mouth with water.Consult a

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

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Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.- Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.Avoid breathing vapors, mist or gas.Ensure adequate ventilation.Remove all

sources of ignition.Evacuate personnel to safe areas.Beware of vapours accumulating to form explosive

concentrations.Vapours can a

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.Do not let product enter drains.Discharge into the environment
mus
be avoided.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in

container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

no data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes.Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from
sources of ignition - No smoking.Take measures to prevent the build
up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.Containers which are opened must be carefully resealed

and kept upright to prevent leakage.
Over time, pressure may increase causing containers to burst Handle and
open container

7.3 Specific end use(s)

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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

Eyeface 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).

Skin 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. Immersion protection
Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: > 480 min Material
tested: Camatril? (Aldrich Z677442, Size M) Splash protection Material: Nitrile rubber Minimum layer
thickness: 0.2 mm Break through time: > 30 min Material tested: Dermatril? P (Aldrich Z677388, Size M)
data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method:
EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374,
contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by
an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be
construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective
equipment must be selected according to the concentration and amount of the dangerous substance at the
specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose
combination (US) or type AXBEK (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. Use respirators and components
tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

no data available

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	-115°C
f) Initial boiling point and boiling range	50°C
g) Flash point	-48.°C

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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	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

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Vapours may form explosive mixture with air.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Oxidizing agents

10.5 Incompatible materials

Hazardous decomposition products formed under fire conditions.- Carbon oxides
Other decomposition products - no data available

10.6 Hazardous decomposition products

Oral LD50
no data available
Inhalation LC50
no data available
Dermal LD50
no data available
Other information on acute toxicity
no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

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Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a
human aspiration toxicity hazard.

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as
probable, possible or confirmed human carcinogen by IARC.

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ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a
carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a
known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a
carcinogen or potential carcinogen by OSHA.

Carcinogenicity

no data available

Reproductive toxicity

May cause drowsiness or dizziness.

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

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

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life

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with long lasting effects.

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12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material

is highly flammable.Offer surplus and non-recyclable solutions to a licensed disposal company.Contact a licensed

professional waste disposal service to dispose of this material.

Contaminated packaging

no data available

SECTION 14: Transport information

DOT (US)

UN number: 1208	Packing group: II	Class: 3
Proper shipping name: HEXANES	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: 是
Environmental Hazards: 是		

IMDG

UN number: 1208	Packing group: II	EMS-No: 否
Proper shipping name: HEXANES		

IATA

UN number: 1208	Packing group: II	Class: 3
Proper shipping name: HEXANES		

SECTION 15: Regulatory information

no data available

SECTION 16: Other information

Further information

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