

Material Safety Data Sheet

Acetone

Version 1.10

Revision Date 29.11.2006



1. Identification of the substance/preparation and of the company/undertaking

Trade name	Acetone
Synonyms	Acetone, 2-propanone, Dimethyl ketone, Ketone propane, beta-Ketapropanone
Use	<i>Solvents, raw material for cleaning agents and disinfectants, raw material for washing and cleaning agents, raw material for cosmetic agents, raw material for pharmaceutical products, raw material for printing inks and printing ink additives, raw material for adhesives and binders, raw material for welding and soldering aids, Paint related material</i>
Company	<i>Hitech Chemicals</i>

2. Composition/information on ingredients

acetone; propan-2-one; propanone

content: 100.00 %W/W

CAS-No. 67-64-1

Index-No. 606-001-00-8

EC-No. 200-662-2

Symbol(s) F, Xi

R-phrase(s) -R11 -R36 -R66 -R67

For the full text of the R phrases mentioned in this Section, see Section 16.

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3. Hazards identification

Identification of the risks

R11	Highly flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

4. First aid measures

General advice	Consult a physician if necessary.
Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Consult a physician.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Consult a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician immediately.
Ingestion	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician immediately.

5. Fire-fighting measures

Suitable extinguishing media	Water spray, Foam, Dry powder
Specific hazards during fire fighting	Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Further information	Cool containers / tanks with water spray.

6. Accidental release measures

Personal precautions	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.
Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material and dispose of as

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hazardous waste.

Additional advice

Never return spills in original containers for re-use.

7. Handling and storage

Handling

Safe handling advice

Do not breathe vapours or spray mist. Wear personal protective equipment.

Advice on protection

against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment.

Storage

Requirements for storage areas and containers

Keep containers tightly closed in a cool, well-ventilated place.

8. Exposure controls / personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

no data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
ACETONE	TWA	1,210 mg/m ³	05 2003	EU Exposure Limit Values
	TWA	500 ppm	05 2003	EU Exposure Limit Values

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection

gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: 4 h

Material thickness: 0.5 mm

unsuitable gloves

Material: leather, nitrile rubber/nitrile latex, Polyvinylchloride,

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	<i>natural rubber/natural latex</i>
Eye protection	<i>Safety glasses with side-shields</i>
Skin and body protection	<i>protective suit, Safety shoes</i>
Hygiene measures	<i>Wash hands before breaks and immediately after handling the product.</i>
Protective measures	<i>Wear suitable protective equipment.</i>

9. Physical and chemical properties

Form	<i>liquid</i>
Colour	<i>colourless</i>
Odour	<i>pungent sweet mint-like</i>
Melting point/range	<i>-95.35 °C</i>
Boiling point/range	<i>56.2 °C</i>
Flash point	<i>-20 °C; closed cup</i>
Autoignition temperature	<i>465 °C</i>
Lower explosion limit	<i>2.6 %(V)</i>
Upper explosion limit	<i>12.8 %(V)</i>
Vapour pressure	<i>248.25 hPa</i>
Density	<i>0.789 g/cm³; 20 °C</i>
Partition coefficient (n-octanol/water)	<i>log Pow: -0.24</i>
Viscosity, dynamic	<i>0.32 mPa.s; 20 °C</i>
Relative vapour density	<i>2</i>

10. Stability and reactivity

Materials to avoid	<i>Oxidizing agents, Acids and bases</i>
Hazardous decomposition products	<i>Carbon oxides</i>

11. Toxicological information

Acute oral toxicity	<i>LD50 rat: 5,800 mg/kg; literature value</i>
Acute inhalation toxicity	<i>LC50 rat: > 20 mg/l; ; 4 h; literature value</i>
Acute dermal toxicity	<i>LD50 rabbit: 20,000 mg/kg; literature value</i>
Skin irritation	<i>rabbit: moderately irritating; (literature value)</i>

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Eye irritation

rabbit: irritating; (literature value)

rabbit: moderately irritating; Draize Test

12. Ecological information

Biodegradability

100 %; 5 d

89 %; 21 d

Bioaccumulation

1

Ecotoxicity effects

Toxicity to fish

LC50 *Oncorhynchus mykiss* (rainbow trout): 5,540 mg/l; 96 h; literature value

LC50 *Bluegill sunfish*: 8,300 mg/l; 96 h; literature value

LC50 *Pimephales promelas*: 8,120 mg/l; 96 h; literature value

Toxicity to daphnia

EC50 *Daphnia magna*: 10 mg/l; 24 h

Toxicity to algae

EC50 *Selenastrum capricornutum*: > 100 mg/l; 96 h; literature value

13. Disposal considerations

Product

Dispose of in accordance with local regulations.

Contaminated packaging

Store containers and offer for recycling of material when in accordance with the local regulations.

14. Transport information

ADR

UN-No.: 1090; Class: 3; Packaging group: II; F1; Description of the goods: ACETONE

RID

UN-No.: 1090; Class: 3; Packaging group: II; F1; Description of the goods: ACETONE

ADNR

UN-No.: 1090; Class: 3; Packaging group: II; F1; Description of the goods: ACETONE

IMDG

UN-No.: 1090; Class: 3; EmS: F-E, S-D; Packaging group: II; Description of the goods: ACETONE

ICAO/IATA

UN-No. : 1090; Class: 3; Packaging group: II; Description of the goods: Acetone

15. Regulatory information

Labelling

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Regulatory base	67/548/EEC
Symbol(s)	F: Highly flammable Xi: Irritant
R-phrases(s)	R11: Highly flammable. R36: Irritating to eyes. R66: Repeated exposure may cause skin dryness or cracking. R67: Vapours may cause drowsiness and dizziness.
S-phrase(s)	S 2: Keep out of the reach of children. S 9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition - No smoking. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Hazardous components which must be listed on the label	acetone; propan-2-one; propanone

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R11	Highly flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use, store and transport the product in the workplace. Since we cannot anticipate or control conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

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The MSDS was created by:
The MSDS was approved by: