



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Acetone 99.8% for HPLC & Spectroscopy
Cat No.	HP0002
CAS-No.	67-64-1
M.W.	58.08
EC-No.	200-662-2
Company	High Purity Laboratory Chemicals Pvt. Ltd.
Address	Plot No. 1902, Fansa Road, G.I.D.C., Sarigam – 396 155, DIST. Valsad, Gujarat (INDIA)
Email	customercare@hplcindia.com

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	67-64-1
Percent	99.8%
Substance/Mixture	Substance
Synonym	2-Propanone; Propanone; Dimethyl Ketone
Chemical Formula	(CH ₃) ₂ CO

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids	(Category 2)
Eye irritation	(Category 2)
Specific target organ toxicity - single exposure	(Category 3)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word

Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use non-sparking tools.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides.
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
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 disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid, not more than 10 Hazen units in colour.
Odour	Pungent, weakly aromatic
Odour Threshold	no data available
pH	no data available
Melting/freezing point	-94.0 °C
Boiling point/range	55-56 °C
Flash point	-20°C
Evaporation rate	no data available
Vapour pressure	245.3 hPa at 20.0 °C
Vapour density	no data available
Relative density	0.789-0.791 g
Water solubility	Soluble
Log Pow	no data available
Auto-ignition temperature	465.0 °C
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Vapours may form explosive mixture with air.
Stability	Sensitivity to light, Sensitive to air.
Incompatibilities	rubber, various plastics
Hazardous decomposition products	no data available
Conditions to avoid	Warming

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute oral toxicity LD50 Rat: 5.800 mg/kg Acute inhalation toxicity LC50 Rat: 76 mg/l; 4 h Acute dermal toxicity LD50 Rabbit: 20.000 mg/kg
Skin corrosion/irritation	Skin - Rabbit Result: Mild skin irritation - 24 h
Serious eye damage/irritation	Eyes - Rabbit Result: Eye irritation - 24 h
Respiratory/skin sensitization	Maximisation Test Guinea pig Result: negative
Germ cell mutagenicity	Genotoxicity in vivo Micronucleus test Result: negative



Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: May cause drowsiness or dizziness.
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 6.210 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Daphnia pulex (Water flea) - 8.800 mg/l - 48 h

Toxicity to algae

static test NOEC - M.aeruginosa - 530 mg/l - 8 d

Toxicity to bacteria

static test EC50 - activated sludge - 61.15 mg/l - 30 min

Persistence/degradation

Biodegradability aerobic - Exposure time 28 d Result: 91 % - Readily biodegradable.

Biochemical Oxygen Demand (BOD) 1.850 mg/g

Chemical Oxygen Demand (COD) 2.070 mg/g

Theoretical oxygen demand 2.200 mg/g

Environmental

no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	1090
Proper shipping name	ACETONE
Hazard class	3
Packaging group	II
Marine pollutant	No

SECTION 15: REGULATORY INFORMATION

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

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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