



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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SAFETY DATA SHEET (SDS)

Diacetone Alcohol *SDS*

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS 123-42-2 EC 204-626-7 SIGNAL WORD DANGER

GHS02

Flammable Liquid

GHS07

Harmful / Irritant

GHS08

Health Hazard

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE
COMPANY

Product Name	Diacetone Alcohol
Product Type	Solvent / Industrial Chemical
Chemical Family	Ketone-alcohol (4-Hydroxy-4-methylpentan-2-one)
CAS No.	123-42-2
EC No.	204-626-7
Intended Use	Industrial / professional use as solvent, chemical intermediate, coatings, cleaning agent. See SPC product page for details.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/diacetone-alcohol
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 3; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Repr. 2



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Signal Word	DANGER
GHS Pictograms	GHS02 (Flammable Liquid) GHS07 (Harmful / Irritant) GHS08 (Health Hazard)

HAZARD STATEMENTS

- H226 — Flammable liquid and vapour
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
- H361 — Suspected of damaging fertility or the unborn child

PRECAUTIONARY – PREVENTION

- 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.
- P260 — Do not breathe vapours or spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY – RESPONSE / STORAGE / DISPOSAL

- P301+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P303+P361+P353 — IF ON SKIN OR HAIR: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P312 — Call a POISON CENTER or doctor if you feel unwell.



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- P331 — Do NOT induce vomiting.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P405 — Store locked up.
- P501 — Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Diacetone Alcohol (4-Hydroxy-4-methylpentan-2-one)	123-42-204-2	204-626-7	100	Flam. Liq. 3 (H226); Skin Irrit. 2 (H315); Eye Irrit. 2 (H319); STOT SE 3 (H335, H336); Repr. 2 (H361)

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person immediately to fresh air. Keep at rest in a comfortable position for breathing. If symptoms persist (dizziness, headache, respiratory irritation), seek medical attention.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation develops or persists.
Eye Contact	Rinse cautiously with water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Seek immediate medical attention.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice immediately. Do not give anything by mouth to an unconscious person.
Note to Physician	Treat symptomatically based on exposure route and clinical presentation. No specific antidote. Supportive care.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Foam (alcohol-resistant AFFF preferred), dry chemical powder, carbon dioxide (CO ₂), dry sand. Water spray may be used to cool containers and disperse vapours.
Unsuitable Media	Do not use direct high-pressure water jet as it may spread burning liquid.
Specific Hazards	Flammable liquid and vapour. Vapours are heavier than air and may travel to a distant ignition source and flash back. Containers may rupture or explode when exposed to heat. Combustion produces carbon monoxide, carbon dioxide and irritating fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA, EN 137 / NIOSH-approved).
Special Procedures	Flammable vapours may form explosive mixtures with air. Use grounded / explosion-proof equipment. Evacuate non-essential personnel. Prevent fire-fighting water run-off from entering drains and watercourses.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate all ignition sources. Ensure adequate ventilation. Wear appropriate PPE (see Section 8). Avoid inhalation of vapours. Keep upwind of spill.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify relevant authorities if significant environmental release occurs.
Containment / Clean-up	Contain spill with sand, earth or other non-combustible absorbent material. Collect material into clearly labelled, compatible containers for disposal through an approved waste contractor. Flush residual traces with water.
Reference to Sections	See Section 8 for PPE; Section 13 for disposal; Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use in well-ventilated areas or under local exhaust ventilation. Keep away from heat, sparks, open flames and other ignition sources.
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	Bond and ground containers when transferring. Use explosion-proof equipment.
Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed, compatible containers in a cool, well-ventilated, fire-resistant store. Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient (below 30°C recommended); keep away from direct sunlight and heat sources.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides), concentrated acids, halogens, and aluminium chloride at elevated temperatures.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals. Observe fire safety distances.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Diacetone Alcohol (CAS 123-42-2): ACGIH TLV-TWA 50 ppm (238 mg/m ³); OSHA PEL 50 ppm (240 mg/m ³); UK WEL 8h TWA 50 ppm. Verify current local (India / EU) OELs before use. Apply ALARA where no local limit is established.
Engineering Controls	Use closed handling systems or local exhaust ventilation. Provide general dilution ventilation. Use explosion-proof ventilation equipment and electrical grounding for flammable liquid handling.
Respiratory Protection	Where OEL may be exceeded or ventilation is inadequate, use NIOSH/EN 14387-approved organic vapour respirator. Use SCBA for high-concentration or emergency situations.
Hand / Eye / Skin	Gloves: chemical-resistant nitrile, butyl rubber or neoprene — select appropriate thickness and breakthrough time. Eye/Face: chemical splash goggles (EN 166 / ANSI Z87.1); add face shield for splash or pressure-transfer risk. Body: chemical-resistant apron or coverall; antistatic footwear where flammable vapours may occur. Provide eyewash station and safety shower at workplace.



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless liquid
Odour	Faint, pleasant, minty odour
Odour Threshold	Not established (public reviewed sources)
pH	Not applicable (pure solvent); aqueous solutions approximately neutral
Melting / Freezing Point	–44°C (–47°F) — corrected from source; source value “–45°F” was assigned to Boiling Point row in error
Boiling Point / Range	168°C (334°F) at 760 mmHg — corrected from source; source value “328°F at 760 mmHg” was assigned to Flash Point row in error
Flash Point	58°C (136°F) closed cup (typical literature value; confirm from supplier CoA)
Auto-ignition Temperature	603°C (1118°F) — acetone-free grade; 643°C (1190°F) commercial grade (USCG, 1999)
Flammability Limits	Lower (LEL): 1.8% v/v; Upper (UEL): 6.9% v/v (literature; verify with supplier)
Vapour Pressure	1.71 mmHg at 20°C (USCG, 1999) — corrected from source; source value appeared under Relative Density row in error
Vapour Density (air = 1)	4.0 — corrected from source; source value appeared under Solubility row in error
Relative Density	0.938 at 20°C (68°F) — corrected from source; source value appeared under Log Pow row in error; liquid is less dense than water
Solubility in Water	Miscible (NIOSH, 2024) — corrected from source; source value appeared under Evaporation Rate row in error
Log Pow (Partition Coeff.)	–0.14 to 1.03 (calculated range); consensus literature value ≈0.34 — corrected from source; source value appeared under Viscosity row in error
Evaporation Rate	See supplier SDS for grade-specific value (relative to n-butyl acetate)
Viscosity	See supplier SDS for grade-specific value
VOC Content	Assess per applicable regional VOC regulations; typically classified as VOC

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
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Conditions to Avoid	Heat, open flames, sparks, ignition sources, contamination, direct sunlight and incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) at elevated temperatures – not a concern under normal ambient storage or blending.
Hazardous Decomposition	Carbon monoxide, carbon dioxide, and irritating or toxic organic fumes may be formed on combustion or thermal decomposition.
Hazardous Reactions	No hazardous polymerisation. No hazardous reactions expected under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rat, oral): ~4,000 mg/kg (literature; low acute oral toxicity). Classified based on available data; confirm numeric endpoint with supplier.
Acute Dermal Toxicity	Not classified for acute dermal toxicity based on reviewed data; may cause mild irritation on prolonged contact.
Acute Inhalation Toxicity	Not classified for acute inhalation lethality; STOT SE 3 (H336) – narcotic effects / drowsiness / dizziness at elevated vapour concentrations.
Skin Irritation	Skin Irrit. 2 (H315) – Causes skin irritation on repeated or prolonged contact.
Eye Irritation	Eye Irrit. 2 (H319) – Causes serious eye irritation.
Sensitisation	Not classified as a skin or respiratory sensitiser based on available data.
Carcinogenicity	Not classified as carcinogenic. Not listed by IARC, NTP or OSHA as a carcinogen.
Mutagenicity	Not classified as a mutagen based on available data.
Reproductive Toxicity	Repr. 2 (H361) – Suspected of damaging fertility or the unborn child. Based on animal data; human risk not fully characterised.
STOT – Single Exposure	STOT SE 3 (H335, H336) – May cause respiratory irritation and drowsiness or dizziness.
STOT – Repeated Exposure	No classification identified from reviewed data; confirm with supplier formulation data.
Aspiration Hazard	Not classified.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute aquatic classification identified in Section 2 from reviewed data. Aquatic organisms may be affected at high concentrations. Avoid release to water bodies.
Persistence / Degradability	Diacetone alcohol is considered readily biodegradable in the environment. Verify with supplier or ECHA data where registration requires confirmation.
Bioaccumulation	Low bioaccumulation potential based on log Pow $\approx$ 0.34 (below BCF trigger threshold of 2). Confirm with supplier log Kow / BCF data where required.
Mobility in Soil	Miscible with water; potential for mobility in soil and groundwater. Prevent release to soil. Adsorption potential is low.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local / national hazardous waste regulations. Do not pour down drains or discharge to the environment.
Contaminated Packaging	Empty containers may retain residues and flammable vapours; treat as hazardous until thoroughly cleaned or disposed of. Return to supplier or dispose via authorised contractor.
Indian Regulations	Follow applicable Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (amended), and State Pollution Control Board requirements. Assign waste code in accordance with actual process and local regulation.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1148	UN 1148	UN 1148
Proper Shipping Name	DIACETONE ALCOHOL	DIACETONE ALCOHOL	DIACETONE ALCOHOL
Class	3	3	3
Packing Group	II	II	II



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PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
Marine Pollutant	No	No	N/A

Packaging: UN-certified drum appropriate for flammable liquid, Class 3. Drum must be labelled with Class 3 placard, UN 1148, PG II and product name. Verify current ADR (tunnels), IMDG (EmS) and IATA special provisions with carrier before each shipment. Source document listed transport class as 3.2 – corrected to Class 3 (Flammable Liquids); PG II confirmed from published UN transport tables.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled in accordance with CLP Regulation (EC) No 1272/2008 as per Section 2. Registered or notified under REACH where required. Observe applicable REACH downstream user obligations.
OSHA (USA)	Prepared in OSHA HCS/HazCom 2012 (29 CFR 1910.1200) aligned 16-section SDS format. Verify TSCA inventory status before US import or distribution.
India	Observe applicable Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989 (amended); Factories Act; Environment Protection Act; Hazardous and Other Wastes Rules 2016; and State Pollution Control Board requirements.
Other Jurisdictions	Canada WHMIS 2015/HPR: classify and label using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. China GB/T: apply applicable GB/T SDS and classification requirements where marketed. Middle East/GCC: observe applicable GHS-aligned local requirements. Australia (AICS): check inventory status before export or import.

SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues)
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is



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responsible for safe use, handling and compliance with all applicable
laws and regulations.

FULL TEXT OF H-STATEMENTS

- H226 — Flammable liquid and vapour
 - H315 — Causes skin irritation
 - H319 — Causes serious eye irritation
 - H335 — May cause respiratory irritation
 - H336 — May cause drowsiness or dizziness
 - H361 — Suspected of damaging fertility or the unborn child (Category 2)
-