

SAFETY DATA SHEET

Acetone

SECTION 1. IDENTIFICATION

Product identifier	Acetone
Other identifiers	2-Propanone; dimethyl ketone; CAS 67-64-1
Recommended use	Industrial solvent and process chemical where legally permitted.
Restrictions on use	Industrial/professional use only. Use only as directed.
Distributor / responsible party	Solvents USA 9436 W Lake Mead Blvd., Suite 5-1216 Las Vegas, NV 89134, USA
Business telephone	708-280-1184
24-hour emergency telephone	CHEMTREC: 800-424-9300 (United States/Canada)

SECTION 2. HAZARD(S) IDENTIFICATION

OSHA HCS classification	Flammable liquid - Category 2 Serious eye irritation - Category 2A Specific target organ toxicity, single exposure - Category 3 (narcotic effects)
Signal word	DANGER
Hazard statements	H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Other hazards	Vapor is heavier than air and may accumulate in low areas, travel to ignition sources and flash back. Repeated skin contact may cause dryness or cracking.



FLAME



EXCLAMATION

Prevention	Keep away from heat, sparks, flames and hot surfaces. No smoking. Keep tightly closed. Ground and bond containers and transfer equipment. Use explosion-proof equipment and non-sparking tools. Prevent static discharge. Avoid breathing vapor or mist. Use only outdoors or with adequate ventilation. Wash thoroughly after handling. Wear protective gloves and eye/face protection.
Response	IF ON SKIN (or hair): Remove contaminated clothing and rinse with water/shower. IF INHALED: Move to fresh air and keep comfortable for breathing; call a poison center or doctor if unwell. IF IN EYES: Rinse cautiously with water for several minutes; remove contacts if easy and continue rinsing. If irritation persists, obtain medical attention. In case of fire use water fog, alcohol-resistant foam, dry chemical or carbon dioxide.
Storage	Store locked in a cool, well-ventilated place. Keep tightly closed.
Disposal	Dispose under applicable federal, state and local requirements.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Acetone (2-propanone)	100% CAS 67-64-1 Formula C ₃ H ₆ O
Important	Confirm grade, purity and impurity limits against the supplier specification and shipment COA.

SECTION 4. FIRST-AID MEASURES

Inhalation	Move to fresh air. If breathing is difficult, trained personnel may give oxygen. If breathing stops, begin artificial respiration and obtain immediate medical attention.
Skin contact	Remove contaminated clothing. Wash thoroughly with soap and water. Wash clothing before reuse. Obtain medical attention if irritation persists.
Eye contact	Flush cautiously with water for at least 15 minutes. Remove contacts if easy and continue rinsing. Obtain medical attention.
Ingestion	Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.
Symptoms/effects	Eye, nose and throat irritation; headache, dizziness, drowsiness, nausea and CNS depression. Repeated skin exposure may cause drying, cracking or dermatitis.
Medical treatment	Treat symptomatically and supportively. Monitor breathing and CNS function after significant exposure.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable media	Water fog, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable media	Do not use a direct solid water stream; it may spread burning liquid.
Specific hazards	Highly flammable. Vapor may form explosive mixtures, accumulate in low areas, travel and flash back. Closed containers may rupture when heated. Combustion can produce carbon oxides.
Firefighter protection	Wear positive-pressure SCBA and full protective clothing. Cool exposed containers with water fog from a protected position.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate unnecessary personnel. Eliminate ignition sources and hot surfaces. Ventilate. Approach from upwind. Avoid breathing vapor. Use grounded, non-sparking equipment and Section 8 protection.
Environmental precautions	Prevent entry into drains, sewers, waterways, basements and confined spaces. Notify authorities when required.
Containment/cleanup	Stop leak if safe. Dike large spills. Vapor-suppressing foam may be used. Absorb with compatible noncombustible material and place in closed, approved containers.

SECTION 7. HANDLING AND STORAGE

Safe handling	Use closed systems and adequate ventilation. Ground and bond containers, tanks, piping and transfer equipment. Avoid splash filling/free fall and static accumulation. Empty containers retain flammable vapor; do not cut, weld, drill, grind or pressurize.
Storage	Store in a cool, dry, well-ventilated Class I flammable-liquid area away from oxidizers, acids, halogenated compounds, heat and ignition sources. Keep tightly closed and upright. Protect drums and totes from damage.
Tanker/cargo tank transfer	Trained personnel only. Verify product, capacity, hoses, valves and bonding. Set brakes, chock wheels, attend continuously, prevent overfill and safely drain/purge lines before disconnecting.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Federal OSHA PEL	1,000 ppm (2,400 mg/m ³), 8-hour TWA.
NIOSH REL / IDLH	250 ppm (590 mg/m ³) TWA; IDLH 2,500 ppm (10% LEL).
Supplier/legacy value	Source lists 750 ppm and 500 ppm without a reliable current basis. The 750 ppm federal value was part of a vacated 1989 OSHA rule; do not present it as the current federal PEL.
Engineering controls	Use process enclosure and explosion-proof local exhaust to maintain exposure below applicable limits. Provide eyewash and safety shower. Monitor vapor during bulk operations.
Eye/face	Chemical splash goggles; face shield where splashing is possible. Do not wear contact lenses while handling.
Hands/skin	Chemical-resistant gloves and clothing selected using manufacturer permeation data. Use apron and boots where splashing may occur.
Respiratory	Use a NIOSH-approved organic-vapor respirator under a compliant program when controls are insufficient; use positive-pressure supplied air or SCBA for high, unknown or IDLH concentrations.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state / color	Clear, colorless liquid
Odor / threshold	Strong ketone/fragrant odor; threshold not reported by source
Melting/freezing point	Approximately -95.35 C (-138 F), source SDS
Boiling point	Approximately 56 C (133 F)
Flammability	Highly flammable liquid and vapor
Flammability limits	Lower 2.6 vol%; upper 12.8 vol%, source SDS
Flash point	-17 C (1 F), closed cup, source SDS
Auto-ignition	Approximately 465 C (869 F)
Decomposition temperature	No data available
pH	Source reports approximately 7 in a 1:1 volume mixture with water; not an intrinsic neat-liquid pH
Kinematic viscosity	No source value
Water solubility	Completely miscible
Partition coefficient	No source value
Vapor pressure	Approximately 185 mm Hg at 20 C
Evaporation rate	Approximately 11.6 (n-butyl acetate = 1)
Density / specific gravity	Specific gravity approximately 0.791-0.793 at 20/20 C
Relative vapor density	Approximately 2 (air = 1)
VOC statement	Source reports VOC content 0%, reflecting a regulatory-exemption convention in some jurisdictions; acetone is highly volatile and applicability must be confirmed.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No dangerous reaction expected under normal conditions.
Stability	Stable under recommended conditions.
Hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Extreme heat, flames, sparks, static discharge and other ignition sources.
Incompatible materials	Strong oxidizers, acids and halogenated compounds.
Decomposition products	Carbon monoxide, carbon dioxide and hydrocarbons under combustion conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely routes	Inhalation, ingestion, skin and eye contact.
Acute effects	Causes serious eye irritation. Vapor may irritate the respiratory tract and cause headache, dizziness, drowsiness and CNS depression.
Skin	Contact may cause redness, burning, drying, cracking or dermatitis. Significant harmful dermal absorption is not expected by source.
Ingestion	May cause GI and CNS effects. The source discusses aspiration during vomiting, but the finished product is not classified for aspiration hazard in its Section 2.
Acute toxicity reference	Source: oral LD50 mouse approximately 3,000 mg/kg; inhalation LC50 mouse approximately 44,000 mg/m ³ /4 h. These are literature references, not product tests.
Sensitization/mutagenicity	Not classified based on source information.
Carcinogenicity	Not listed as a carcinogen by source.
Reproductive/developmental	Not classified based on source information.
STOT	Single exposure Category 3: may cause drowsiness or dizziness. Repeated exposure not classified.
Aspiration hazard	Not classified in source Section 2; prevent aspiration during ingestion/vomiting as a first-aid precaution.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	Not classified as hazardous to the aquatic environment based on available product information.
Selected source values	Bluegill LC50 8,300 mg/L/96 h; rainbow trout LC50 5,450 mg/L/96 h. The source's Daphnia entry appears questionable and should not be used without verification.
Persistence/degradability	Source reports no data; acetone is generally expected to biodegrade, but use verified data for regulatory assessment.
Bioaccumulation	Source reports no data; product-specific assessment not provided.
Mobility	Expected to have very high soil mobility and to volatilize from moist and dry surfaces.
Other effects	Prevent large or frequent environmental releases.

SECTION 13. DISPOSAL CONSIDERATIONS

Recover or recycle where feasible. Dispose through an authorized contractor. Unused acetone may exhibit RCRA ignitability (D001) and is a listed commercial chemical product waste (U002) when discarded unused; the generator must make the final determination. Do not intentionally air-dry containers. Empty drums, totes and cargo tanks retain flammable vapor; do not pressurize, cut, weld, drill, grind or expose to ignition unless properly cleaned and gas-freed.

SECTION 14. TRANSPORT INFORMATION

U.S. DOT / TDG	UN1090, Acetone, 3, PG II; Emergency Response Guide 127.
IATA/ICAO	UN1090, Acetone, 3, PG II. Current packing instructions and quantity limits apply.
IMDG	UN1090, ACETONE, 3, PG II; marine pollutant: No.
Packaging precautions	Drums, totes/IBCs and highway cargo tanks must be authorized, compatible, closed, marked, labeled/placarded and documented under current modal requirements.

SECTION 15. REGULATORY INFORMATION

OSHA HCS	Hazardous chemical under 29 CFR 1910.1200.
EPCRA 311/312	Flammable, serious eye irritation and specific target organ toxicity hazards.
EPCRA 302/304	Source reports no extremely hazardous substance reporting requirement.
EPCRA 313	Source reports no Section 313 reporting component.
CERCLA	Acetone is a listed hazardous substance with a source-reported reportable quantity of 5,000 lb. Evaluate release-reporting duties using current regulations.
RCRA	Potential waste codes include D001 and U002, depending on how generated and discarded.
TSCA	Acetone is listed on the TSCA Inventory.
California Proposition 65	Source reports no listed chemical. Confirm actual impurity profile and current list before release.

SECTION 16. OTHER INFORMATION

Preparation date	July 28, 2026
Revision	1.0 - Initial updated Solvents USA issue
Primary source	TransChemical Acetone SDS, Revision 2, dated February 10, 2026; original October 23, 2019
HMIS reference	Health 1 Flammability 3 Reactivity 0 (source rating)

Distributor statement: Solvents USA distributes this product by direct shipment and does not manufacture, blend, handle or warehouse it.

Information is intended for hazard communication and is not a specification or warranty. Confirm grade, purity, current exposure limits, regulatory VOC treatment and shipment COA before release. Qualified regulatory approval is recommended.

END OF SAFETY DATA SHEET