



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Acetone**
PRODUCT NUMBER: 01560
CAS NUMBER: 67-64-1
SYNONYMS: Dimethyl ketone, Ketone propane, 2-Propanone

MANUFACTURER:

Prochem, Inc.
826 Roosevelt Road
Rockford, IL 61109

PHONE: 815-398-1788
FAX: 815-398-1810
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

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

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking.
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.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): 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/doctor/physician if you feel unwell.
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, or alcohol-resistant foam to extinguish.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

HMIS CLASSIFICATION:

Health: 2 Flammability: 3 Reactivity Hazard: 0

NFPA RATING:

Health: 2 Fire: 3 Reactivity Hazard: 0

EYE CONTACT: Causes eye irritation.

SKIN CONTACT: May be harmful if absorbed through skin. Causes skin irritation.

INHALATION: May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness or dizziness. Can cause irritation of mucous membranes and central nervous system depression.

INGESTION: May be harmful if swallowed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: C₃H₆O

Molecular Weight: 58.08

CHEMICAL NAME	CAS#	%
Acetone	67-64-1	>99

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: In case of eye contact, rinse with plenty of water and seek medical attention immediately.

SKIN EXPOSURE: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.

INHALATION: Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

INGESTION: Do NOT induce vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: -17° C (Closed Cup)

AUTO IGNITION TEMPERATURE: 465° C

EXPLOSION LIMITS: No data

EXTINGUISHING MEDIUM: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide when fighting fires involving this material. Cool containers with water.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon oxides. SENSITIVE TO STATIC DISCHARGE. Keep away from heat/sparks/open flame/hot surface.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear appropriate respiratory and protective equipment to avoid all exposure to with the material.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains. Any release to the environment may be subject to a federal, national, or local reporting requirements.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Cleanup personnel need personal protective from inhalation and skin/eye contact. Evacuate and ventilate the area. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with local regulations.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear approved personal protective equipment. Ensure adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid contact with skin and eyes. Avoid inhalation. Use explosion-proof equipment. Keep away from sources of ignition. No smoking. Take measures to prevent the buildup of electrostatic charge.

SECTION 7 HANDLING AND STORAGE (Cont.)

CONDITIONS FOR SAFE STORAGE: Store in tightly closed, original containers in a cool, dry, and well-ventilated area. Store between 55-100° F for product stability. Do not store with strong oxidizing agents, strong bases, reducing agents, and phosphorus oxychloride.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Acetone	2400 mg/m ³	PEL	OSHA
	1188 mg/m ³	TLV	ACGIH
	590 mg/m ³	REL	NIOSH
	2500 ppm	IDLH	OSHA

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

EYE PROTECTION: Wear chemical safety glasses or goggles.

SKIN PROTECTION: Wear nitrile or rubber gloves, apron, or lab coat.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator if exposure levels are excessive.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers, and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Clear, colorless liquid

ODOR: Mild alcohol. Fruity. Mint-like. Fragrant.

MOLECULAR WEIGHT: 58.08

BOILING POINT: 56° C

MELTING POINT: -94° C

UPPER EXPLOSIVE LIMIT: 13%

LOWER EXPLOSIVE LIMIT: 2%

SPECIFIC GRAVITY: 0.791

VAPOR PRESSURE: 184 mmHg

AUTO-IGNITION TEMPERATURE: 465° C

SOLUBILITY IN WATER: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Heat, flame, and sparks.

INCOMPATIBILITY: Strong bases, oxidizing agents, and phosphorus oxychloride.

DECOMPOSITION PRODUCTS: Carbon oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Dermal – guinea pig – 7,426 mg/kg. LC50 inhalation – rat – 8 hours – 50,100 mg/m³. LD50 Oral – rat – 5,800 mg/kg.

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen.

SECTION 11 TOXICOLOGICAL DATA (Cont.)

MUTAGENIC EFFECTS: Not available

TETRATOGENIC EFFECTS: Not available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

AQUATIC VERTEBRATE: LC50 – *Oncorhynchus mykiss* (Rainbow trout) – 5549 mg/l – 96 hours.

AQUATIC INVERTEBRATE: EC50 – *Daphnia magna* (Water flea) – 13500 mg/l – 48 hours.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN1090

Acetone

Class 3

PG II

SECTION 15 REGULATORY INFORMATION

TSCA: Listed on the TSCA inventory

DSCL (EEC): Listed on the DSCL inventory

SARA 302/304: Acetone

SARA 311/312: Acetone

SARA (TITLE 313): Not listed

CALIFORNIA PROP. 65: Not listed

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE REVISED: 09/21