

Safety Data Sheet

Part Number 189506

Section 1. Substance Identity and Company Contact Information

Product Name	Acetone	Product Part Number(s)	
Trade Name	Acetone	Unit Size	
Company	OI Analytical, P.O. Box 9010, College Station, TX 77842-9010, Phone: (979) 690-1711, Fax: (979) 690-0440		
Emergency No. 1-800-424-9300 (Chemtrec).	Use only in the event of chemical emergencies involving spills, leaks, fire, exposure, or accidents involving chemicals.		

Section 2. Hazards Identification

Pictogram(s)



Signal Word	Danger	
Precautionary Statement(s)	Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.	
Emergency Overview	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.	
Target Organ(s)	Respiratory tract irritation. Narcotic effect.	
Potential Health Effects	Eye:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
	Skin:	Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
	Ingestion:	Immediately call a POISON CENTER or doctor/physician.
	Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Chronic Effects/ Carcinogenicity	IARC:	No data available
	NTP:	No data available
	OSHA:	No data available

Teratology (Birth Defects) Information	Suspected of damaging fertility or the unborn child.	
Reproductive Information	No data available	
NFPA Ratings	Health:	1
	Flammability:	3
	Reactivity:	0
	Special Notice Key:	No data available
HMIS Rating	Health:	No data available
	Flammability:	No data available
	Reactivity:	No data available
	Protective Equipment:	No data available

Section 3. Chemical Composition and Data on Components

Ingredient	CAS No.	Percent	Hazard Data	
			ACGIH TLV	OSHA PEL
Acetone	67-64-1	99-100	No data available	No data available

Section 4. First Aid Measures

General Advice	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
If Inhaled	Move to fresh air. Get medical attention if symptoms persist.
In Case of Skin Contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
In Case of Eye Contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists after washing.
If Swallowed	Call a physician or poison control center immediately. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Indication of Any Immediate Medical Attention and Special Treatment Needed	Treat symptomatically. Symptoms may be delayed.

Section 5. Fire-fighting Measures

General Information	Flammable liquid and vapor.
Suitable Extinguishing Media	Water spray, foam, dry powder or carbon dioxide.
Special Hazards Arising from the Substance or mixture	Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Heat may cause the containers to explode.
Advice for Firefighters	Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
Flash Point	No data available
Autoignition Temperature	No data available
Further Information	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.
Environmental Precautions	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
Methods and Materials for Containment and Cleaning	Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharges. Stop leak if possible without any risk. Use only non-sparking tools. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Reference to Other Sections	For disposal, see Section 13.

Section 7. Handling and Storage

Precautions for Safe Handling	DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use personal protective equipment as required. Do not get in eyes, on skin, on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.
Conditions for Safe Storage, Including any Incompatibilities	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a cool, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.
Specific End Use(s)	Analytical chemistry

Section 8. Exposure Controls and Personal Protection

Components with Workplace Control Parameters	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Appropriate Engineering Controls	No data available.
Eye/Face Protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin Protection	Chemical resistant gloves
Body Protection	Wear suitable protective clothing and gloves.
Respiratory Protection	In case of inadequate ventilation use suitable respirator.
Control of Environmental Exposure	Keep tightly closed. Store in a cool dry place.

Section 9. Physical and Chemical Properties

Appearance	Form: Liquid
Odor	Sweet, mint-like
Odor Threshold	No data available
pH	No data available
Melting Point/Freezing Point	-94.7 °C
Initial Boiling Point and Boiling Range	56 °C
Flash Point	-20 °C (Closed cup)
Evaporation Rate	No data available
Flammability (solid, gas)	Class IB Flammable liquid
Upper/Lower Flammability or Explosive Limits	Flammability limit - upper (%): 12.8 %(V) Flammability limit - lower (%): 2.6 %(V) Explosive limit - upper (%): No data available. Explosive limit - lower (%): No data available.
Vapor Pressure	30.9 kPa (25 °C)
Vapor Density	2
Relative Density	0.79 (20 °C)
Water Solubility	Miscible with water.
Partition Coefficient : n-octanol/water	-0.24
Auto-ignition Temperature	465 °C
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available
Other Safety Information	No data available

Section 10. Stability and Reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical Stability	Material is stable under normal conditions.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Heat, sparks, flames.
Incompatible Materials	Oxidizers, acids

Section 11. Toxicological Information

Routes of Exposure	<i>On the skin:</i> Causes mild skin irritation. Prolonged or repeated skin contact may cause drying, cracking, or irritation.
	<i>On the eye:</i> Causes eye irritation.
	<i>Inhalation:</i> May cause irritation to the respiratory system.
	<i>Ingestion:</i> Harmful if swallowed.
Respiratory or Skin Sensitization	Not a skin sensitizer.
Signs and Symptoms of Overexposure	No data available
Toxicity Data	<i>Oral Rat</i> LD 50 (Rat): 5,800 mg/kg

Section 12. Ecological Information

General Notes	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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Section 13. Disposal Considerations

Product	Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated Packaging	Since emptied containers retain product residue, follow label warnings even after container is emptied.

Section 14. Transport Information

DOT Shipping Name	Acetone
UN Proper Shipping Name	Acetone
DOT Hazard Class	3
Packing Group	II
UN Number	UN 1090
Hazardous Ingredients	No data available
DOT Label	3
DOT Placard	No data available

IMDG Shipping Name	Acetone
UN Number	UN 1090
Class	3
Packing Group	II

IATA Shipping Name	Acetone
Technical Shipping Name	Acetone
IATA Hazard Class	3
UN Number	UN 1090
Hazardous Ingredients	No data available
IATA Label	3
IATA Placard	No data available

Section 15. Regulatory Information

OSHA Status	None present or none present in regulated quantities.	
TSCA Status	None present or none present in regulated quantities.	
CERCLA Reportable Quantity	ACETONE Reportable quantity: 5000 lbs.	
SARA Title III	None present or none present in regulated quantities.	
RCRA Status	No data available	
California Proposition 65	No ingredient regulated by CA Prop 65 present.	
Chemical Weapons Convention	No data available	
TSCA 12 (b)	No data available	
SARA 311/312	Acute:	Yes
	Chronic:	Yes
	Fire:	No data available
	Pressure:	No data available
	Reactivity:	No data available
Australian Hazchem Code	On or in compliance with the inventory	
Poison Schedule	No data available	
WHMIS	No data available	

Section 16. Other Information

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For R&D use only. Not for drug, household, or other uses.

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