



## Material Safety Data Sheet

JSL Chemical Corporation 218 Royal Palm Way Palm Beach, FL 33480	Phone : 561-832-9600 Fax : 561-832-9609 E-mail : info@jslchemical.com Website : www.jslchemical.com Prepared: 06/30/2005 Update :
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### Acetone

#### Section 1. Chemical product and company identification

**Common name** : Acetone  
**Synonym** : 2-Propanone  
**Code** : 9503107  
**Supplier/Manufacturer** : JSL Chemical Corporation  
 218 Royal Palm Way  
 Palm Beach, FL 33480  
 Tel : 561-832-9600  
 Fax :561-832-9609  
 E-mail : info@jslchemical.com  
**In case of emergency** : CHEMTRAC : (800) 262-8200

#### Section 2. Hazards identification

**Physical state** : Liquid.  
**Emergency overview** : DANGER !  
 EXTREMELY FLAMMABLE LIQUID AND VAPOR.  
 CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
 CAUSES DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN,  
 CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.  
 VAPOR MAY CAUSE FLASH FIRE.  
 Avoid contact with skin and clothing. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

**Routes of entry** : Dermal contact. Eye contact. Inhalation. Ingestion.

**Potential acute health effects**

**Eyes** : Irritating to eyes.  
**Skin** : Irritating to skin.  
**Inhalation** : Irritating to respiratory system.  
**Ingestion** : Practically non-toxic if swallowed.

**Potential chronic health effects** : Carcinogenic effects: A4 (Not classifiable for humans or animals.) by ACGIH.  
 Mutagenic effects: Not available.  
 Teratogenic effects: Not available.

**Medical conditions aggravated by over-exposure** : Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged exposure to the substance can produce lung damage. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce target organs damage.

See toxicological information (section 11)



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### Section 3. Composition, Information on Ingredients

	CAS number	% by weight
<b>United States</b>		
Acetone	67-64-1	70 - 100

This material is classified as hazardous under OSHA regulations.

See Chapters 8, 11 and 14 for details.

### Section 4. First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention.
- Skin contact** : Wash with soap and water. Get medical attention.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.

### Section 5. Fire fighting measures

- Flammability of the product** : Flammable.
- Auto-ignition temperature** : 464.85°C (868.7°F)
- Flash point** : Closed cup: -18.15°C (-0.7°F). (Pensky-Martens.)
- Products of combustion** : These products are carbon oxides.
- Fire hazards in the presence of various substances** : Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
- Fire-fighting media and instructions** : Use dry chemical, carbon dioxide, water spray (fog) or foam.  
  
Extremely flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment. Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



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**Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

### Section 7. Handling and storage

**Handling** : Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Wash thoroughly after handling.

**Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

### Section 8. Exposure controls, personal protection

**Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protection

**Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.  
Recommended: Splash goggles.



**Respiratory** : Not required if handle in a ventilated enclosure.  
**Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.  
>8 hour/hours (breakthrough time): Nitrile gloves.



**Skin/Body** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  
Body: Recommended: Lab coat.



**Personal protection in case of a large spill** : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear MSHA/NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear.



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**Product name**

**Exposure limits**

**United States**

Acetone

**ACGIH TLV (United States, 5/2004).**

STEL: 1782 mg/m<sup>3</sup> 15 minute/minutes. Form: All forms.

STEL: 750 ppm 15 minute/minutes. Form: All forms.

TWA: 1188 mg/m<sup>3</sup> 8 hour/hours. Form: All forms.

TWA: 500 ppm 8 hour/hours. Form: All forms.

**NIOSH REL (United States, 12/2001).**

TWA: 590 mg/m<sup>3</sup> 10 hour/hours. Form: All forms.

TWA: 250 ppm 10 hour/hours. Form: All forms.

**OSHA PEL (United States, 8/1997).**

TWA: 2400 mg/m<sup>3</sup> 8 hour/hours. Form: All forms.

TWA: 1000 ppm 8 hour/hours. Form: All forms.

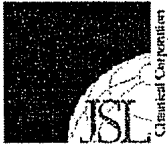
Consult local authorities for acceptable exposure limits.

### Section 9. Physical and chemical properties

Physical state	: Liquid.
Color	: Colorless.
Odor	: Ketone.
Molecular weight	: 58.09
Molecular formula	: C <sub>3</sub> H <sub>6</sub> O
Boiling/condensation point	: 56.12°C (133°F)
Melting/freezing point	: -94.25°C (-137.7°F)
Critical temperature	: 234.9°C (454.8°F)
Specific gravity	: 0.791 (Water = 1)
Vapor density	: 2 (Air = 1)
Volatility	: 100% (v/v)
Evaporation rate	: 6.06 compared with Butyl acetate.
VOC	: 100 (%)
Dispersibility properties	: See solubility in water, acetone.
Solubility	: Easily soluble in acetone. Insoluble in cold water, hot water.

### Section 10. Stability and reactivity

Stability and reactivity	: The product is stable.
Incompatibility with various substances	: Reactive with oxidizing materials, acids and alkalis.
Hazardous polymerization	: Will not occur.



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### Section 11. Toxicological information

**Toxicity data**

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Acetone	LD50	5800 mg/kg	Oral	Rat
	LD50	5340 mg/kg	Oral	Rabbit
<b>IDLH</b>	: 2500 ppm			
<b>Acute Effects</b>				
<b>Eyes</b>	: Irritating to eyes.			
<b>Skin</b>	: Irritating to skin.			
<b>Inhalation</b>	: Irritating to respiratory system.			
<b>Ingestion</b>	: Practically non-toxic if swallowed.			
<b>Potential chronic health effects</b>	: Carcinogenic effects: A4 (Not classifiable for humans or animals.) by ACGIH. Mutagenic effects: Not available. Teratogenic effects: Not available.			
<b>Target organs</b>	: Causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.			

### Section 12. Ecological information

**Ecotoxicity data**

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Acetone	Daphnia magna (EC50)	48 hour/hours	23.5 mg/l
	Pimephales promelas (EC50)	48 hour/hours	8990 mg/l
	Daphnia magna (EC50)	48 hour/hours	13500 mg/l
	Pimephales promelas (LC50)	96 hour/hours	>100 mg/l
	Daphnia magna (LC50)	96 hour/hours	>100 mg/l
	Oncorhynchus mykiss (LC50)	96 hour/hours	5540 mg/l

**Products of degradation** : These products are carbon oxides and water.

### Section 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

### Section 14. Transport information

**Classification**

DOT/IMDG/IATA:	UN number	Proper shipping name	Class	Packing group
	UN1090	ACETONE	3	II



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NAERG : 127

**Label**

UN/Other regulations

DOT



**Additional information**

DOT

IATA

Reportable quantity  
5000 lbs. (2268 kg)

Quantity limitation -  
Passenger aircraft -  
Limited quantity  
1 L

Limited quantity  
Yes.

Quantity limitation -  
Passenger aircraft  
5 L

Packaging  
instruction  
**Passenger aircraft**  
Quantity limitation: 5 L

Quantity limitation -  
Cargo aircraft  
60 L

**Cargo aircraft**  
Quantity limitation: 60  
L

Special provisions  
IB2, T4, TP1

**Section 15. Regulatory information**

**United States**

**HCS Classification** : Flammable liquid  
Irritating material  
Target organ effects

**U.S. Federal regulations** : TSCA 4(a) final test rules: Acetone  
TSCA 8(b) inventory: All components listed.  
TSCA 12(b) one-time export: Acetone  
SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: Acetone  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Acetone:  
Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean Air Act (CAA) 112 accidental release prevention: No products were found.  
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.



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Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

**State regulations** : Pennsylvania RTK: Acetone: (environmental hazard, generic environmental hazard)  
 Massachusetts RTK: Acetone  
 New Jersey: Acetone  
 California prop. 65: No products were found.

**International regulations**

**International lists** : All components listed are listed on major international inventories or exempted from being listed in Australia (AICS), Europe (EINECS/ELINCS), Korea (TCCL), Japan (METI/MOL), Philippines (RA6969).

### Section 16. Other information

**Label requirements** : EXTREMELY FLAMMABLE LIQUID AND VAPOR.  
 CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
 CAUSES DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN,  
 CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.  
 VAPOR MAY CAUSE FLASH FIRE.

**Hazardous Material Information System (U.S.A.)** :

Health	*	2
Fire hazard		3
Reactivity		0
Personal protection		C

**National Fire Protection Association (U.S.A.)** :



**References** : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG.

**Date of issue** : 06/30/2005  
**Version** : 1

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.