

Material Safety Data Sheet

Acetone



Section 1. Chemical Product and Company Identification

Product Name

Acetone

Manufacturer's Name

StatLab Medical Products, Inc.

Address (Number, Street, City, State, and ZIP Code)

407 Interchange st.

McKinney Tx 75071

Product Code

00960-16

Emergency Telephone Number

800-424-9300

Telephone Number for Information

800-442-3573 x 226

Date Prepared

8/15/2005

Signature of Preparer (optional)

Section 2. Composition/Information on Ingredients

Component	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	Percent
Acetone	67-64-1	1000/ppm(TWA)	500ppm(TWA)		99.9+

Section 3. Hazards Identification

Emergency Overview

Inhalation of vapors irritates the respiratory tract. May cause coughing dizziness, dullness, and headache. Higher concentrations can produce central nervous system depression, narcosis, and unconsciousness. Swallowing small amounts is not likely to produce harmful effects. Ingestion of larger amounts may produce abdominal pain, nausea and vomiting. Aspiration into lungs can produce severe lung damage and is a medical emergency. Other symptoms are expected to parallel inhalation. Skin contact causes irritation due to defatting action on skin, also may cause redness, pain, drying and cracking of the skin. Vapors are irritating to the eyes. Contact with the eyes may cause severe irritation, with stinging, tearing, redness and pain. Prolonged or repeated skin contact may produce severe irritation or dermatitis. Use of alcoholic beverages enhances the toxic effect. Exposure may increase the toxic potential of chlorinated hydrocarbons, such as chloroform, trichloroethane.

Potential Health Effects

Target Organs Eyes, skin, respiratory system.

Eye	Vapors are irritating to the eyes. Splashes may cause severe irritation, with stinging, tearing, redness and pain.
Skin	Irritating due to defatting action of skin. Causes redness, pain, drying and cracking of the skin
Ingestion	Ingestion of large amounts may produce abdominal pain, nausea and vomiting. Aspiration into lungs can produce severe lung damage and is a medical emergency.
Inhalation	Inhalation of vapors irritates the respiratory tract. May cause coughing, dizziness, dullness, and headache. Higher concentrations can produce central nervous system depression, narcosis and unconsciousness

Chronic/Carcinogenicity

Teratology Not available

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Reproduction Not available

Mutagenicity Not available

Section 4. First Aid Measures

Eye Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

Skin Flush with water for at least 15 minutes. Get medical attention

Ingestion Aspiration hazard. If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Call a physician immediately.

Inhalation Remove to fresh air. Give artificial respiration if necessary. Get medical attention.

All Other Means of Exposure CONTACT POISON CONTROL CENTER IMMEDIATELY. Be prepared to provide hazardous ingredient information from Section 2.

Section 5. Fire Fighting Measures

Flammable Properties	Flash Point	Method
	0° F ASTM D-56	Tag Closed Cup
Flammable Limits	Lower	Upper
	2.5	13
Auto ignition Temperature	869F (465C)	

Hazardous Decomposition

Products Carbon dioxide and carbon monoxide may form when heated to decomposition

Extinguishing Media Dry chemical, alcohol foam or carbon dioxide. Water may be ineffective. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors

Fire & Explosion Hazards Above flash point, vapor-air mixtures are explosive.

Fire Fighting Instructions In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode

Section 6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.

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Section 7. Handling and Storage

Handling/Storage Protect against physical damage. Store in a cool, dry well ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

Section 8. Exposure Controls, Personal Protection

Engineering Controls Use of a fume hood is recommended.

Respiratory Protection If the exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapor respirator may be worn for up to ten times the exposure limit, of the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.

Skin Protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate to prevent skin contact.

Eye Protection Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Permissible Exposure Levels (see also Section 2)

Component	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	Percent
Acetone	67-64-1	1000ppm	500ppm(TWA)	750ppm (STEL)	99.90%

Section 9. Physical and Chemical Properties

Boiling Point	Specific Gravity (H ₂ O = 1)
133°F	07.915@20°C/4°C
Vapor Pressure (mm Hg)	Melting Point
184mm Hg @ 68°F	-141°F
Vapor Density (AIR = 1)	Evaporation rate (BuAc=1)
2	ca. 7.7
Solubility in Water	Physical State
Miscible in all proportions in water	
Appearance and Odor	Other
Clear, colorless, volatile liquid. Fragrant, mint-like.	

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Section 10. Stability and Reactivity

Chemical Stability

Stable under normal conditions of use and storage.

Incompatibility

Concentrated nitric and sulfuric acid mixtures, oxidizing materials, chloroform, alkalis, chlorine compound, acids, potassium t-butoxide.

Hazardous Decomposition Products

May form Carbon Dioxide, Carbon Monoxide and

Hazardous Polymerization

Will not occur

Section 11. Toxicological Information

Oral rat LD50: 5800mg/kg; Inhalation rat LC50: 50, 100mg/m³; Irritation eye rabbit, Standard Draize, 20m mg severe, investigated as a tumorigen, mutagen, reproductive effector.

Section 12. Ecological Information

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into water, this material is expedited to readily biodegrade. When released to water, this material is expected to quickly evaporate. This material is not expected to be toxic to aquatic life. When released into the air, this material may be moderately degraded by photolysis.

Section 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be disposed of in a RCRA approved waste disposal facility. Dispose of in accordance with local, state, and federal regulations.

Section 14. Transport Information

GROUND SHIPMENTS: Acetone, 3, UN1090, II

NOTE: *It is ultimately the shippers responsibility to make hazard class determination based on their best information available.*

Section 15. Regulatory Information

OSHA Status: This item meets the OSHA Hazard Communication Standard (29 CFR 1910.1200) of a hazardous material

TSCA Status: This product is listed in the TSCA Inventory of Chemical Substances.

CERCLA Reportable Quantity: 5000

SARA TITLE III:

Section 302 Extremely Hazardous Substances: Formaldehyde TPQ 500 pounds

Section 311/312:	Acute	Chronic	Fire	Pressure	Reactivity
	Yes	No	Yes	No	No

Section 313 Toxic Chemicals: Acetone, 67-64-1, 99.9%

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Section 16. Other Information

NFPA Ratings: Health: 1 Flammability: 3 Reactivity: 0

HMIS® Ratings: Health: 2 Flammability: 4 Reactivity: 0 Protective Equipment: H

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration to its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and STATLAB MEDICAL PRODUCTS, INC. assumes no legal responsibility or liability whatsoever resulting from its use.