



Factor II, Incorporated

The Art, Science and Technology of
Silicones and Prosthetics...

Safety Data Sheet

Product Code: A-830

Revision Date: 02/13/2018

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER

Product Name Acetone
Product Code A-830
Intended Use(s) For professional use only

CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

Factor II, Incorporated
5642 White Mountain Ave
PO Box 1339
Lakeside AZ 85929
928-537-8387
www.factor2.com
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EMERGENCY TELEPHONE NUMBERS

928- 368-7502

SECTION 2: HAZARD IDENTIFICATION

INGREDIENT NAME	CAS NUMBER	WEIGHT %
Acetone	67-64-1	100

Component Information/Information on Non-Hazardous Components

This product is considered to be hazardous according to the criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard) and the Canadian Controlled Product Regulations.

Trace impurities and additional material names not listed above may also appear in Section 15

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

EMERGENCY OVERVIEW

This product is a clear, volatile, flammable liquid. Has a sweet, mint-like odor. Highly flammable. Vapours may form explosive mixtures with air. The product causes irritation of eyes, skin and mucous membranes. Repeated exposure may cause skin dryness or



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cracking. Harmful by inhalation. Harmful: may cause lung damage if swallowed. Causes headache, drowsiness or other effects to the central nervous system. Do not allow product to contact skin, eyes and clothing. Do not breathe vapours.

POTENTIAL HEALTH HAZARDS

SKIN

Irritating to skin. Skin absorption may cause toxic effects similar to those described for inhalation. Repeated or extended contact may cause erythema (reddening of the skin) or dermatitis, resulting from a defatting action on tissue.

EYES

Irritating to eyes. Symptoms include itching, burning, redness and tearing.

INHALATION

Harmful by inhalation. Vapours may cause drowsiness and dizziness. Inhalation of high vapour concentrations can cause CNS-depression and narcosis. Severe overexposure may produce more serious symptoms, including coma and risk of kidney damage.

INGESTION

Harmful: may cause lung damage if swallowed. Ingestion causes burning sensation in the mouth, throat and stomach and gastrointestinal disturbances. Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.

DELAYED EFFECTS

Repeated or prolonged exposure may cause damage to the liver and kidney.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Pre-existing respiratory diseases, liver or kidney dysfunctions, or central nervous system disorders may be aggravated by exposure.

Ingredients found on one of the OSHA designated carcinogen lists are listed below.

No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, IARC, NTP or OSHA.

SECTION 4: FIRST AID MEASURES

SKIN

Wash off immediately with soap and plenty of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Obtain medical attention.

EYES

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.



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INHALATION

Move to fresh air in case of accidental inhalation of vapours. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, provided a qualified operator is available. Call a physician immediately.

INGESTION

DO NOT induce vomiting. Immediate medical attention is required. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

ADVICE TO PHYSICIAN

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT	-4°F (-20°C)
FLASH POINT METHOD	Closed Cup
AUTOIGNITION TEMPERATURE	869°F (465°C)
UPPER FLAME LIMIT (volume % in air)	13
LOWER FLAME LIMIT (volume % in air)	2.5
FLAME PROPAGATION RATE (solids)	Not applicable
OSHA FLAMMABILITY CLASS	Class 1B Flammable Liquid

EXTINGUISHING MEDIA:

Use alcohol-resistant foam, carbon dioxide (CO₂) or dry chemical.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Highly flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the ground to some distant source of ignition and flash back. Hazardous combustion products may include carbon monoxide, carbon dioxide (CO₂).

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:

Water may be ineffective. Fire-fighters should wear self-contained, NIOSH-approved breathing apparatus and full protective clothing. Fire or intense heat may cause violent rupture of packages. In the event of fire, cool tanks with water spray. Do not use a solid water stream as it may scatter and spread fire. After fire, flush area with water to prevent re-ignition. Do not allow run-off from firefighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE

Containment Procedures

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Stop flow of material, if this is without risk.



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Cleanup Procedures

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Shovel into suitable container for disposal. Do not use sparking tools. Do not allow product to enter sewer or waterways.

Evacuation Procedures

Keep unnecessary people away. Isolate area.

Special Procedures

Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation.

Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

SECTION 7: HANDLING AND STORAGE

NORMAL HANDLING

(Always wear recommended personal protective equipment.)

Ensure all equipment is electrically grounded before beginning transfer operations.

Ensure adequate ventilation. Do not allow product to contact skin, eyes and clothing. Do not breathe vapours. Keep away from fire, sparks and heated surfaces. Keep container tightly closed in a dry and well-ventilated place.

STORAGE RECOMMENDATIONS

Keep in a well-ventilated place. Empty containers may retain product residue including Flammable or Explosive vapours. Do not cut, drill, grind, or weld near full, partially full, or empty product containers. Keep away from heat and sources of ignition. Store away from incompatible substances. Re-open used containers with caution. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in area designed for storage of flammable liquids.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapours or mists generated from the handling of this product. Use product only in closed system. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Local exhaust ventilation is preferred.

PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION

Wear impervious gloves and flame retardant antistatic protective clothing. Gloves must be inspected prior to use. For leak, spills, or other emergency, use full protective equipment.



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EYE PROTECTION

For handling in closed ventilation system, wear safety glasses with side-shields.
For leak, spill or other emergency, use chemical goggles and face-shield.
Remove contact lenses.

RESPIRATORY PROTECTION

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

ADDITIONAL RECOMMENDATIONS

Provide eyewash stations and quick-drench shower facilities.

EXPOSURE GUIDELINES

Form	liquid
Color	colorless
Odor	characteristic

Information on change in the physical state

Melting point/melting range	n/a
Boiling point/boiling range	Not applicable, as aerosol
Flash point	ca. - 40 °C
Auto ignition temperature	Product is not self-igniting.
Danger of explosion	Product is not explosive. Formation of explosive air/vapor mixtures is possible
Critical values for exposure lower	1,2 Vol%, upper 10, 9 Vol%
Density	0.60 (20 °C) g/cm ³
Vapor pressure	n.a.
Viscosity	n.a.
pH	neutral
Solubility in/miscibility with:	miscible with most organic solvents; Alcohols
Water	insoluble
Content of solvents:	
Organic solvents	n-hexane
Water	none
Content of solids	none

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Based on typical material)

APPEARANCE	Clear, colorless liquid
PHYSICAL STATE	Liquid
MOLECULAR WEIGHT	58.05
CHEMICAL FORMULA	C ₃ H ₆ O
ODOR	Sweet mint-like odor detectable at 20 ppm
SPECIFIC GRAVITY (water = 1.0)	0.79
SOLUBILITY IN WATER (weight %)	Complete



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pH	Not applicable
BOILING POINT	133°F (56°C)
MELTING POINT	-138.6°F (-94.8°C)
VAPOUR PRESSURE	180 mm Hg at 68°F (20°C)
VAPOUR DENSITY (air = 1.0)	2.0
EVAPORATION RATE	12
COMPARED TO	Butyl Acetate = 1
% VOLATILES:	100
FLASH POINT	-4°F (-20°C)

(Flash point method and additional flammability data are found in Section 5.)

SECTION 10: STABILITY AND REACTIVITY DATA

NORMALLY STABLE? (CONDITIONS TO AVOID)

Stable under recommended storage conditions.

Avoid: Heat, flames and sparks. Incompatible products

INCOMPATIBILITIES

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous decomposition products include carbon monoxide and carbon dioxide (CO₂).

HAZARDOUS POLYMERISATION

Hazardous polymerisation does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Component Analysis - LD50/LC50

Acetone (67-64-1)

Rat: LD50	Route: Inhalation	Dose: 76 mg/L/4H
LD50	Route: Oral	Dose: 1800 mg/kg
Rabbit: LD50	Route: Dermal	Dose: 20000 mg/kg

IMMEDIATE (ACUTE) EFFECTS

The product causes irritation of eyes, skin and mucous membranes. Repeated exposure may cause skin dryness or cracking. Harmful by inhalation. Harmful: may cause lung damage if swallowed. Causes headache, drowsiness or other effects to the central nervous system.

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS

Repeated or prolonged exposure may cause damage to the liver and kidney.



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8-Week Inhalation Toxicity Study (rat): 19,000 ppm acetone 5days/week for 8 weeks produced no signs of toxicity other than slightly reduced weight gain compared to controls.

90-Day Oral Toxicity Study (rat): The no-observed effect level is 100 mg/kg/day and the low-observed effect level is 500 mg/kg/day based on increased liver and kidney weights and nephrotoxicity.

OTHER DATA:

This material is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

Ames Assay (<i>S. typhimurium</i>)	Negative
Chromosome Aberrations and Sister Chromatid Exchange Assays	Negative
Point Mutation in Mouse Lymphoma Cells	Negative
DNA Cell-binding Assay	Negative

SECTION 12: ECOLOGICAL INFORMATION

Prevent from entering sewer or waterway. This material is not expected to be harmful to aquatic life.

Component Analysis - Ecotoxicity - Aquatic Toxicity Acetone (67-64-1)

Test & Species		Conditions
96 Hr LC50 rainbow trout	5540 mg/L	static
96 Hr LC50 fathead minnow	6210 mg/L	flow-through
96 Hr LC50 bluegill	8300 mg/L	static
48 Hr LC50 water flea	0.0039 mg/L	48 Hr EC50
water flea	12700 mg/L	Static

Accumulation in terrestrial organisms is unlikely. Bioaccumulation is unlikely.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Code U002.

This product is a D001 ignitable waste in supplied form. Dispose of as special waste in compliance with local and national regulations. Waste codes should be assigned by the user based on the application for which the product was used. Incineration of waste material in an EPA-approved facility is

OTHER DISPOSAL CONSIDERATIONS

Observe all Federal, State, and Local Environmental regulations.

The information offered here is for the product as shipped. Use and/or alterations to the



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product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

SECTION 14: TRANSPORT INFORMATION

US DOT PROPER SHIPPING NAME	Acetone
US DOT HAZARD CLASS	3
PACKING GROUP	II
US DOT ID NUMBER	UN1090
TDG PROPER SHIPPING NAME	Acetone
TDG HAZARD CLASS	3
PACKING GROUP	II
TDG ID NUMBER	UN1090
North American Emergency Response Guide (ERG) Number	127

For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

SECTION 15: REGULATORY INVORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)

TSCA INVENTORY STATUS

All components are on the U.S. EPA TSCA Inventory List.

OTHER TSCA ISSUES ‘

TSCA 4(a) Final Test Rules & Testing Consent Orders.

TSCA 8(a) Inventory Update Rule. (1998 EPA form U Instructions, App.A)

SARA TITLE III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

INGREDIENT NAM	SARA/CERCLA RQ (lb)	SARA EHS TPQ (lb)
Acetone	5000	None

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS

Immediate. Fire.



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SARA 313 TOXIC CHEMICALS

The following ingredients are SARA 313 "Toxic Chemicals". CAS numbers and weight percents are found in Section 2.

INGREDIENT NAME

No ingredients listed in this section.

STATE RIGHT-TO-KNOW

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

INGREDIENT NAME	WEIGHT %	COMMENT
Acetone (67-64-1)	100	CA, MA, MN, NJ, PA, RI

ADDITIONAL REGULATORY INFORMATION:

Acetone is a DEA Listed Precursor and Essential Chemical (List II) subject to certain import, export recordkeeping and reporting requirements. 21 CFR 1310.04 (f),-(g).

Acetone is a Volatile organic compound (VOC) with negligible photochemical reactivity and thus excluded from the definition of volatile organic compounds for the purposes of preparing State implementation plans to attain the national ambient air quality standards for ozone under title I of the Clean Air Act. 40 CFR 51.100(s).

WHMIS CLASSIFICATION (CANADA):

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by CPR.

WHMIS Classification

B2- Flammable Liquid

D2B- Toxic Material

FOREIGN INVENTORY STATUS

Component Analysis – Inventory

Component	CAS #	TSCA	CAN	EEC	AUST	PHIL	MITI	KOREA	CHINA
Acetone	67-64-1	Yes	DSL	EINECS	Yes	Yes	Yes	Yes	Yes

SECTION 16: OTHER INFORMATION

HMIS Ratings

Health 2 - Moderate

Fire 3 - Serious

Physical Hazard 0 - Minimal

NFPA Ratings:

Health 1 - Slight

Fire 3 - Serious

Reactivity 0 - Minimal



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OTHER INFORMATION

As per the OSHA Hazard Communication Standard, 1910.1200, the information contained within this MSDS must be given to those persons using this material. For laboratory use only. Not for food or drug use. Do not store with foodstuffs.

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