



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification of the substance/preparation Prosthetic Lubricant
Product name ALPS Prosthetic Lubricant
Product code PA604
Use of the Substance/Preparation Donning Silicone Prosthetic Liners
Supplier ALPS South Corporation
2895 42nd Avenue North
St. Petersburg, Florida 33714
USA

Emergency telephone number 1 (727) 528-8566 (USA)
Emergency telephone number 001(727) 528-8566 (International)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation Mixture
Chemical Family Isopropyl Alcohol

Trade Name & Synonyms Lubricant (PA604)

Components	EC-No.	CAS-No.	Weight %	TLV (Units)
Isopropanol	N/A	67-63-0	69%	400PPM
Water	N/A	N/A	29%	NA
Silicone Copolymer	N/A	N/A	2%	NA

3. HAZARDS IDENTIFICATION

Most important hazards

Effects of Acute Overexposure / Potential Health Effects

Potential Routes of Exposure: Ingestion, inhalation, dermal contact, eye contact

Eyes contact: Exposure causes eye irritation. Symptoms may include stinging, tearing, redness and swelling.

Dermal Contact: Exposure may cause mild skin irritation, prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, cracking and skin burns. Pre-existing skin disorders may be aggravated by exposure to this material. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Inhalation: Exposure to vapor or mist is possible. Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects; breathing large amounts may be harmful. Symptoms are more typically seen at air concentrations exceeding the recommended exposure limits. Symptoms of exposure may include: Irritation (nose, throat, respiratory tract) pre-existing lung disorder, e.g. asthma-like conditions, may be aggravated by exposure to this material. Impaired coordination, confusion, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness, low blood pressure, coma.

Ingestion: Single dose oral toxicity is swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. Symptoms may include gastrointestinal irritation (nausea, vomiting diarrhea) impaired coordination, central nervous system depression (dizziness, drowsiness, fatigue, nausea, headache, unconsciousness), respiratory depression, low blood pressure, effects on heart rate, mild, reversible liver effects, pulmonary edema (swelling and collection of fluid in the lungs), kidney damage, coma.



MATERIAL SAFETY DATA SHEET

Product name ALPS Prosthetic Lubricant

Effects of Chronic Overexposure / Potential Health Effects

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain. Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by IARC, NTP or OSHA. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate pre existing disorders of these organs in humans: mild, reversible liver effects.

4. FIRST AID MEASURES

General information

Primary route(s) of entry: Inhalation, skin absorption, skin contact, eye contact.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and calm. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Skin contact

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before re-use.

Eye contact

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on their left side with the head down. If individual is conscious and alert, induce vomiting by giving syrup of IPECA or by gently placing two fingers at the back of the throat. If possible, do not leave individual unattended.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide, dry chemical, foam or water mist for small fires.
Use alcohol type or all purpose type foam by manufacturers recommended for large fires.

Extinguishing media which must not be used for safety reasons

Do not spray a solid stream of water or foam directly into a pool of hot, burning liquid as this may cause frothing, and may intensify the fire. Use self-contained breathing apparatus when fighting fire in an enclosed area.

Hazardous decomposition products N/A

Special protective equipment for firefighters

Wear self contained breathing apparatus and protective suit.



MATERIAL SAFETY DATA SHEET

Product name ALPS Prosthetic Lubricant

Further information

Unusual fire & explosion hazard

Never use welding or cutting torch on or near drum (even empty) because product (even residue) can ignite explosively. All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and / or bonded when material is transferred. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

Sensitivity to Static Discharge

Sensitivity to Static Discharge is expected; material has a flash point of below 200°F

6. ACCIDENTAL RELEASE MEASURES

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal. The preferred disposal method is incineration. Many localities restrict the amount of Isopropyl that may be flushed down the drain. Insure compliance with all government regulations.

Methods for cleaning up

Small Spill

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slippery hazard.

Large Spill

Eliminate all ignition sources (flares, flame, including pilot lights, electrical sparks). Individuals not wearing Protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

7. HANDLING AND STORAGE

Handling / Storage

Handling precautions : Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid and / or solid)

WARNING: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published 'auto ignition' or 'ignition' temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Storage requirements: store in tightly closed containers in a cool, dry area away from heat and other possible ignition sources.



MATERIAL SAFETY DATA SHEET

Product name ALPS Prosthetic Lubricant

Percent, volatile by volume (%)	100
Density (Kg. m3)	850
Evaporation Rate	7.7
Method	PMCC
Flammable Limits	2% - 12%

10. STABILITY AND REACTIVITY

Stability
Stable

Conditions to avoid
Keep away from heat, sparks and flame. Avoid any source of ignition.

Materials to avoid (Incompatibility)
Do not use with aluminum equipment at temperatures above 120°F. Avoid contact with strong oxidizing agents, acids, chlorine, acetaldehyde, ethylene oxide and isocyanates.

Polymerization:
Will not occur

Hazardous products: CO and unidentified organic compounds may be formed of Decomposition

11. TOXICOLOGICAL INFORMATION

LD50: 5,840 mg/kg (acute oral – rat); 13,000 mg/kg (acute dermal – rabbit)
LD50: 16,000 ppm/8hr (inhalation – rat) Mutagenicity: not indicated
LD lo: 5,000 mg/kg (oral rabbit) Reproductive effects : not indicated
Carcinogenicity: Not Identified as a carcinogen by OSHA, IARC, or NTP

12. ECOLOGICAL INFORMATION

Ecotoxicity: NA Environmental Fate: NA
Soil Absorption/ Mobility: Highly Mobile
Environmental Degradation: Should be removed readily from soils and water by volatization and biodegradation



MATERIAL SAFETY DATA SHEET

Product name ALPS Prosthetic Lubricant

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

Dispose of in accordance with local, State and Federal Regulations.

14. TRANSPORT INFORMATION

DOT shipping Name: Isopropyl mixture
DOT Hazard Class: 3
UN ID# UN 1219

DOT Packing Group: II
Dot Label: Flammable Liquid

15. REGULATORY INFORMATION

Superfund Amendments and reauthorization Act of 1986 (SARA). Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDS that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

****NONE****

TSCA Inventory Status

The ingredients of this product are on the TSCA inventory

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC

16. OTHER INFORMATION

Recommended use

Disclaimer : The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of ALPS South Corporation, and are only provided as guidance and not a warranty, or quality specification, it is the user's obligation to determine the conditions of safe use of the product.
