

SAFETY DATA SHEET

© Carlisle Fluid Technologies, Inc.
PRODUCT RELATED HEALTH DATA SHEET

1. IDENTIFICATION of the SUBSTANCE/MIXTURE and of the COMPANY

1.1 Product identifier

Product Name : Pump Seal Lubricant (Water Based Coatings)
Product Code : Part No. 0114-014871 (500mL) & 0114-016100 (250mL)
Product Description : Pump Seal Lubricant.
SDS # : SDS-31 REVISION #: 3.0.2
CHEMICAL FORMULA: Mixture.
CAS NUMBER : Not Applicable.
Article Code : Not Applicable.
GENERAL USE : Pump Seal Lubricant.
DATE REVISED: 12/01/2017 **DATE PREPARED:** 07/21/2015

1.2 Relevant identified uses of the substance or mixture and uses advised against
Not applicable.

1.3 Details of the supplier of the safety data sheet

Carlisle Fluid Technologies, Inc.
16430 North Scottsdale Road
Scottsdale, AZ 85254

Technical service number 1-888-992-4657

1.4 Emergency telephone number

Emergency Number - INFOTRAC
EMERGENCY PHONE (24 HOURS):
1-800-535-5053

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product definition : Liquid – Mixture.
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] : Not classified.

Ingredients of unknown toxicity : None known.

Ingredients of unknown ecotoxicity : None known.

Classification according to OSHA 29 CFR 1910.1200 and Directive 1999/45/EC [DPD]

The product is not classified as dangerous according to OSHA 29.CFR 1910.1200, Directive 1999/45/EC and its amendments.

Classification : Not classified.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms : No pictogram.
Signal word : No signal word.
Hazard statements : No hazard statement.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Hazardous ingredients : None known.

PRODUCT NAME: Pump Seal Lubricant (Water Based Coatings) SDS#: SDS-31



Supplemental label elements : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

Properties affecting health : Not applicable.

Principle routes of exposure : Eye, skin.

Skin contact : May cause mild skin irritation.

Eye contact : May cause eye irritation.

Inhalation : Not applicable.

Ingestion : Low toxicity.

Chronic Effects: not applicable

Medical Conditions Aggravated by Long-Term Exposure: None known.

Target Organs: Not applicable.

Signs and Symptoms: None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Concentration	CAS No.	EINICS No.
Glycerol	≥ 80% - ≤ 90%	56-81-5	200-289-5
Water	≤ 15%	7732-18-5	231-791-2

4. FIRST AID MEASURES

4.1 Description of first aid measures

EYE CONTACT : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

INHALATION : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

SKIN CONTACT : Flush contaminated skin with plenty of water. Remove contaminated clothing. Wash with large amounts of soap and water. Get medical attention if symptoms occur. (see Note to Physician)

INGESTION : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, ingest activated charcoal. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : May cause eye irritation.

Inhalation : Limited information is available regarding the effects of chronic inhalation of glycerol in humans. Overexposure or repeated and extensive inhalation of vapors, aerosol or mist generated can result in respiratory tract irritation, dizziness and nausea.

Skin contact : May cause mild skin irritation.

Ingestion : Low toxicity. May cause nausea, headache and diarrhea. May cause kidney injury.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Stomach/Intestinal disorders.

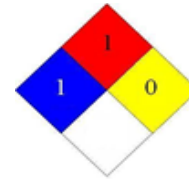
Specific treatments : No specific treatment.

Aggravation of : Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function

Pre-existing Conditions may be more susceptible to the effects of the substance.

5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing media**
Suitable extinguishing media : Extinguish with water spray, CO2, foam or dry chemical.
Unsuitable extinguishing media : Water jet.
- 5.2 Special hazards arising from the substance or mixture**
Flammability class : Product is a combustible liquid.
Fire retardant method : Dry chemical, carbon dioxide, foam, or water spray.
- Flash Point** : See Section 9.
Autoignition Temperature : See Section 9.
Sensitivity to Static Discharge : No data.
Hazards from the substance or mixture : No specific hazards.
Unusual Fire and Explosion Hazards : No specific fire or explosion hazard.
Hazardous combustion products : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides.
- Note** : Prevent contaminated extinguishing water entering drains, sewers or streams.
- 5.3 Protective equipment for firefighters**
Special precautions 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.



HMIS RATING: See Section 15.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering.
For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in “For non- emergency personnel.”
- 6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff from contact with soil, water ways, drains, and sewers. Avoid subsoil penetration. Inform the relevant authorities if the product has caused environmental pollution (sewers, water ways, soil or air). Spills into or upon navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on the surface of the water, may require notification of the National Response Center (phone number 800-424-8802).
- 6.3 Methods and materials for containment and cleaning up**
Small spill : Contain spill with the aid of an absorbent, such as sand, diatomite, acid binders, universal binders or other inert non-combustible absorbent material and place in suitable waste containers for later disposal.
Large spill : Contain spill with the aid of an absorbent to maximize product recovery or disposal. Prevent entry into waterways, ground water, ditches, surface waters or sewers of any kind. In urban areas, cleanup spill as soon as possible. In natural environments, seek cleanup advice from specialist to minimize physical habitat damage. This material is miscible in water. If spill enters sewer, notify Authorities. Comply with all laws and regulations. Dispose of via a licensed waste disposal contractor.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Protective measures : Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
 Note: See also Section 8 for additional information on hygiene measures.
- 7.2 Conditions for safe storage,** : Keep containers tightly closed. Protect from temperature extremes and direct sunlight.

including any incompatibilities Maintain operating temperatures as low as possible. Do not allow operating temperatures to exceed 66°C (150°F). Do not use uncovered (open) bulbs in the storage area. No smoking in the storage area. Product container is not designed for elevated pressure. Do not pressurize, cut, weld, braze, solder, drill, or grind on containers. Do not expose product containers to flames, sparks, heat or other potential ignition sources. Empty containers may contain product residues that can ignite with explosive force. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

7.3 Specific end use(s)

Recommendations

: Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Industrial sector specific solutions : Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

INGREDIENTS	CAS REG NO.	ACGIH TWA	OSHA TWA	UNITS	OSHA TWA	UNITS
Glycerol	56-81-5	10 mist	15 total dust	mg/m ³	5 respirable	mg/m ³

8.2 Exposure controls

Appropriate engineering controls

: Maintain adequate ventilation.

Environmental exposure controls

: Prevent material from entering drains, sewers or streams

Personal Protection Equipment

Eye Protection

: 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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin Protection

Hand protection

: Rubber gloves or other chemical-resistant, impervious gloves complying with an approved standard.

Material	Strength of material	Break through time
Butyl-rubber	0.5 mm	> 480 minutes
Nitrile rubber	0.35 mm	> 480 minutes
Fluorinated rubber	0.4 mm	> 480 minutes

Body protection

: Take off all contaminated clothing immediately, and promptly shower. Launder contaminated clothing before reuse or discard. 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.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection : Not required for normal use. If aerosol or mists are formed a risk assessment should be performed. If a risk assessment indicates that respiratory protection is necessary then use a properly fitted, particulate filter respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other protective clothing

: Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

Hygienic Practices

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminat-

ed clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	: Viscous liquid.
Color	: Colorless.
Odor	: Odorless.
Appearance	: Clear.
pH	: 7 @ 20°C.
Melting point/freezing point	: No data.
Initial boiling point and boiling range	: > 130°C (> 266°F)
Setting Point	: Below - 15°C
Flash point	: 180°C (356°F) (ca).
Burning time	: No data.
Burning rate	: No data.
Upper/lower flammability or explosive limits	: Limits not determined.
Vapor pressure	: 6 hPa.
Vapor Density (air=1)	: No data.
Density (20°C)	: 1.23 – 1.27 g/cm ³ @ 20°C.
Solubility in Water	: Completely miscible.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: 370°C (698°F) (ca).
Decomposition temperature	: Not available.
Viscosity	: 150 mPa.s @ 20°C.
Specific Gravity (water=1)	: Not available.
Pour Point	: Not available.
Explosive properties	: Not available.
VOC	: None.
Oxidizing properties	: Not available.
9.2 Other information	: No additional information.

10. STABILITY AND REACTIVITY

10.1 Reactivity	: No hazardous reactions observed.
10.2 Chemical stability	: Stable.
10.3 Possibility of hazardous Reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Hazardous Polymerization	: Not expected to Occur.
10.5 Conditions to avoid	: Not considered to be reactive.
10.6 Incompatible materials	: Avoid strong oxidizing agents.
10.7 Hazardous decomposition products	: No decomposition if stored and applied as directed. No additional hazardous decomposition products were identified other than the combustion products identified in Section 5 of this MSDS

11. TOXICOLOGICAL INFORMATION

11.1 Acutetoxicity

Effects of Acute Exposure

(LD50 oral and LC50)

INGESTION : Glycerol LD50 rat 12.600 mg/kg

SKIN ABSORPTION : Glycerol LD50 rabbit > 18.700mg/kg

11.2 Acute toxicity estimates

Conclusion/Summary : No known significant effects or critical hazards.

11.3 Irritation/Corrosion

Conclusion/Summary : Primary skin irritation, rabbit: Not irritating.

Skin : may cause skin irritation in susceptible people.
Eyes : May have irritant effect of eyes.
Respiratory : Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation. Preexisting respiratory disorders may be aggravated by over-exposure to this product.

11.4 Sensitizer

Conclusion/Summary

Skin : Sensitization not suspected for humans.
Respiratory : Sensitization not suspected for humans.

11.5 Mutagenicity

Conclusion/Summary

: There are no data available on the mixture itself. Mutagenicity not suspected for humans.

11.6 Carcinogenicity

Conclusion/Summary

: There are no data available on the mixture itself. Carcinogenicity not suspected for humans.

11.7 Reproductive toxicity

Conclusion/Summary

: There are no data available on the mixture itself. Not considered to be dangerous to humans, according to our database.

11.8 Teratogenicity

Conclusion/Summary

: There are no data available on the mixture itself. Teratogenicity not suspected for humans.

11.9 Specific target organ toxicity (single exposure)

Conclusion/Summary

: Not available.

11.10 Specific target organ toxicity (repeated exposure)

Conclusion/Summary

: Not available.

11.11 Aspiration hazard

Conclusion/Summary

: No known significant effects or critical hazards.

11.12 Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

11.13 Potential acute health effects

Inhalation : Preexisting respiratory disorders may be aggravated by over-exposure to this product.
Ingestion : No known significant effects or critical hazards.
Skin contact : May cause mild skin irritation.
Eye contact : May cause mild eye irritation.

11.4 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.
Ingestion : No specific data.
Skin contact : No specific data.
Eye contact : No specific data.

11.15 Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

11.16 Potential chronic health effects

Effects of Chronic Exposure : No known significant effects or critical hazards.
General : No known significant effects or critical hazards.
Carcinogenicity (IARC, ACGIH : No.
NTP, OSHA)
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

11.17 Other information

: Not available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic

Conclusion/Summary

: TOXICITY TO FISH: Glycerol: LD50 Leuciscus idus (Golden orfe) > 10.000mg/l.

: TOXICITY TO DAPHNIA: Glycerol: LD50 Daphnia magna > 10.000mg/l.

12.2 Persistence

Conclusion/Summary

: This product is miscible in water and is expected to readily disperse in marine environments.

12.3 Bioaccumulation/Accumulation

Conclusion/Summary

: Readily biodegradable.

12.4 Mobility/Persistence in soil

Conclusion/Summary

: Not available.

12.5 Degradability/Leaching

Conclusion/Summary

: Not available.

12.6 Environmental Fate

Conclusion/Summary

: Not available.

12.7 Other adverse effects

: Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage systems.

13. DISPOSAL CONSIDERATIONS

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

13.1 Waste treatment methods

Methods of disposal

: Disposal together with normal waste is not allowed. This product should not be allowed to enter drains, water courses or the soil. Conditions of use may cause this material to become “hazardous waste”, as defined by federal or state regulations. It is the responsibility of the user to determine if the material is a “hazardous waste” at the time of disposal. Transportation, treatment, storage, and disposal of waste materials must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive. Contact your regional US EPA office for guidance concerning case specific disposal issues. Dispose of waste at an approved disposal facility in compliance with all current Local, State/Province, and Federal/Canadian laws and regulations.

Hazardous waste

: 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. This material and its container must be disposed of in a safe way. Whenever possible, Recycle used oil in accordance with applicable federal and state or local regulations. Refer to federal, state and local requirements for disposal (OSHA 1910.107, NFPA 33, 40CFR63 parts 260-262, state AQMD and WQMD, local Waste Management Authority).

13.2 Packaging

Methods of disposal

: Risk of explosion - DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose this product’s empty container to flames, sparks, heat or other potential ignition sources. Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Rinse with plenty of water.

13.3 Special precautions

: Code number according to the German regulation on waste: 57201. Consult local authorities for detailed advice.

14. TRANSPORT INFORMATION

No labelling is required for this material by the classification, packaging and labelling of dangerous substances 1984 and corresponding EEC directives.

IMO: Not regulated.

PLACARD(S): None Required.

REPORTABLE QUANTITY (RQ): A Reportable Quantity (RQ) has not been established for this material.

EMERGENCY RESPONSE GUIDE No.: Not Applicable.

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not Regulated	Not Regulated	Not Regulated	Not Regulated	Not Regulated	Not Regulated
UN proper shipping name	–	–	–	–	–	–
Transport hazard class(es)	–	–	–	–	–	–
Packing group	–	–	–	–	–	–
Environmental hazards	No	No	No	No	No	No
Additional information	–	–	–	Not dangerous goods	Not dangerous goods	Not dangerous goods

MARPOL II STATUS: Not a DOT “Marine Pollutant” per 49 CFR 171.8.

Keep away from foodstuffs.

15. REGULATORY INFORMATION

15.1 U.S. Federal regulations

EPA SARA 302/303 EMERGENCY PLANNING and NOTIFICATION: No Components were identified.

TOXIC SUBSTANCES CONTROL ACT (TSCA): This product and/or its components are listed on the Toxic Substances Act (TSCA) Inventory.

EPA SARA Sec. 311/ 312 HAZARD CATEGORIES: None.

CERCLA: No RQ for product.

CLEAN WATER ACT (CWA): Discharges or spills of this material onto or in waters of the United States, adjoining shorelines, or into conduits leading to surface waters of the US without proper Federal or State permits should be reported to the National Response Center at (800) 424-8802.

SARA Title III, Section 313, CHEMICALS: No components were identified.

15.2 State Regulations

Massachusetts Substances: Not on list.

New Jersey Hazardous Substances: Not on list.

Pennsylvania RTK Hazardous Substances: Not on list.

California Proposition 65: This product does not contain a chemical known to the state of California to cause cancer, birth defect or other reproductive harm. Not on list.

15.3 INTERNATIONAL REGULATIONS :

WGK (DE): WGK 1; Slightly water endangering; Classification accordance VwVwS of 17 May 1999, Annex 2.

Chemical Weapon Convention List Schedules I, II & III : Not listed.

Montreal Protocol (Annexes A, B, C, E) : Not listed.

INTERNATIONAL LISTS

National inventory:

Australia : Not determined.

China : Not determined.

Europe : All components are listed or exempted.

Japan : Not determined.

Malaysia : Not determined.

New Zealand : Not determined.

Philippine : Not determined.

Republic of Korea: Not determined.

Taiwan : Not determined.

CANADA

WHMIS (Canada) : Not controlled under Workplace Hazardous Materials Information System (WHMIS, Canada).

CANADIAN LISTS

Canadian NPRI : None of the components are listed.

PRODUCT NAME: Pump Seal Lubricant (Water Based Coatings) SDS#: SDS-31



15.4 HMIS RATING : Health 1, Flammability 1, Reactivity 0

15.5 NFPA RATING : Health 1, Flammability 1, Reactivity 0

16. OTHER INFORMATION

16.1 Full text of abbreviated H statements : None.

16.2 Full text of classifications : None.

16.3 Full text of abbreviated R phrases : None.

16.4 Full text of classifications [DSD/DPD] : This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

16.5 Guide to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

16.6 SDS PREPARED BY: Director of Chemical Safety

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, Carlisle Fluid Technologies, Inc. makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will Carlisle Fluid Technologies, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.

*** END OF SDS ***