


SAFETY DATA SHEET
APEX Superlube® (PS-1000b) Lubricant

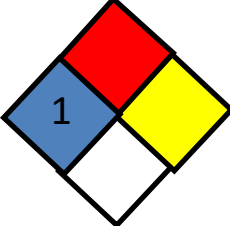
Section 1: Identification

Product Identifier		
Product Name	APEX Superlube® (PS-1000b) Lubricant	
Relevant identified uses of the substance or mixture and uses advised against		
Recommended use	Hazard Communication & Compliance	
Details of the supplier of the safety data sheet		
Manufacturer		
	APEX Advanced Technologies, LLC 4857-A West 130 th Street Cleveland OH 44135 United States Telephone (General) 615-459-0064	
Emergency telephone number		
Manufacturer	APEX Advanced Technologies, LLC	(216) 898-1595
	CHEMTREC	(800) 424-9300

Section 2: Hazard Identification

United States (US)		
According to OSHA 29 CFR 1910.1200 HCS	APEX Superlube® (PS-1000b) Lubricant	
Classification of the substance or mixture		
OSHA HCS 2012	<ul style="list-style-type: none"> H316: Causes mild skin irritation 	
Label elements		
OSHA HCS 2012		
	WARNING	
		
Hazard statements	<ul style="list-style-type: none"> H316: Causes mild skin irritation H320: May cause eye irritation. H335: May cause respiratory irritation. 	
Precautionary statements		
	<ul style="list-style-type: none"> P402+404: Store in a dry place. Store in a closed container P403: Store in a well ventilated place. P210: Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. 	

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	<ul style="list-style-type: none"> P235: Keep cool.
Prevention	
	<ul style="list-style-type: none"> P261: Avoid breathing dust. [As modified by IV ATP] P264: Wash hands thoroughly after handling
Response	
	<ul style="list-style-type: none"> P370+P378: In case of fire: Use appropriate media for extinction. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P353: Rinse skin with water/shower. P332+P313: If skin irritation occurs: Get medical advice/attention.
Storage/Disposal	
	<ul style="list-style-type: none"> P402+404: Store in a dry place. Store in a closed container P403: Store in a well ventilated place. P210: Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. P235: Keep cool.
Other information	
NFPA	

Section 3 - Composition/Information on Ingredients

Substances		
	Material does not meet the criteria of a substance.	
Mixtures		
Component	CAS #	% by Wt.
Stearic Wax (mixture)	110-30-5	50% (max.)
Olefin Wax	9002-88-4	18% (max.)
Petroleum Wax	63231-60-7	12% (max)
Fatty Acid Mixture	143-07-7	10% (max.)
Fatty Acid Mixture	57-11-4	10% (max.)
Proprietary surface agent	31570-04-4	2% (max.)
Proprietary surface agent	149-57-5	2% (max)

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Section 4: First-Aid Measures

Description of first aid measures	Call for emergency medical care. Keep victim warm and quiet. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Inhalation	Move patient to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Skin	Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin. Wash exposed area thoroughly with soap and water. Seek medical attention if irritation develops.
Eye	Exposed eyes should be irrigated with water for at least 20 minutes. Seek medical attention if irritation develops.
Ingestion	If swallowed, give 3-4 glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Get medical attention to determine whether vomiting or evacuation of the stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person. Most important symptoms and effects, both acute and delayed
	Refer to Section 11 - Toxicological Information.
Notes to Physician	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing Media		
Suitable Extinguishing Media		
	Flammable Properties:	Not available
	Flammable Limits:	Not available
	Auto-ignition Temperature:	Not available
	Hazardous Combustion Products:	Not available
Extinguishing Media and Fire Fighting Instructions		
Notes to Physician	Small fires:	Water, carbon monoxide, dry chemical powder, dry sand, or foam.
	Large Fires:	Water spray, fog or alcohol-resistant foam. Move containers from fire area if you can do it without risk. Do not use straight streams. Dike fire control water for later disposal; do not scatter material.
		Wear positive pressure, self-contained breathing

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		apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. Structural firefighters' protective clothing is recommended for fire situations ONLY; it is not effective in spill situations.
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Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	
Personal Precautions	Wear appropriate protective equipment including respiratory protection as conditions warrant.
Methods and material for containment and cleaning up	
Containment/Clean-up Measures	If material is released or spilled, use vacuum for clean-up.

Section 7 - Handling and Storage

Precautions for safe handling	
Handling	Do not breathe dust. Avoid contact with eyes, skin and clothing.
Conditions for safe storage, including any incompatibilities	
Storage	Store in Keep container closed. Keep away from incompatible materials. Store in a cool, dry area away from ignition sources and oxidizers.
Incompatible Materials or Ignition Sources	
	Store in a cool, dry area away from ignition sources and oxidizers.

Section 8 - Exposure Controls/Personal Protection

Control parameters

OSHA Hazardous Components (29 CFR1910.1200)		
Component	Exposure Limits	
	OSHA PEL	ACGIH TLV
Solid Saturated Hydrocarbon	None	None
Stearic Wax (mixture)	None	None


Workplace Exposure Limits

Chemical specific exposure limits have not been established for the components of this material. However, due to the material's physical characteristics, it may become a nuisance dust hazard. The workplace exposure limits for nuisance dusts are:

- 15 mg/m³ OSHA PEL (total particulates not otherwise classified)
- 5 mg/m³ OSHA PEL (respirable fraction particulates not otherwise classified)

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10 mg/m³ ACGIH TLV (total particulates not otherwise classified)

Exposure Controls	
Engineering Measures/Controls	Local exhaust ventilation should be applied whenever there is an incidence of point source emissions or dispersion of regulated contaminants in the work area. Ventilation control of the contaminant as close to its point of generation is both the most economical and safest method to minimize personnel exposure to airborne contaminants.
Personal Protective Equipment	
Pictograms	
Respiratory	Where exposure may exceed OSHA or ACGIH permissible air concentrations, a dust respirator is required.
Hands	Gloves are appropriate for exposure that exceeds permissible limits.
Eye/Face	Use chemical goggles where eye contact may occur.
General Industrial Hygiene	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.
Environmental Exposure Controls	Follow best practices for the site management and disposal of waste. Avoid release to the environment.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
 NIOSH = National Institute of Occupational Safety and Health
 = Occupational Safety and Health Administration
 MSHA = Mine Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
 STEL = Short Term Exposure Limits are based on 15-minute exposures OSHA
 STEV = Short Term Exposure Value

Section 9 - Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Off-white powder
Color	Off-white	Odor	Odorless
Taste	Data lacking	Odor Threshold	N/A
Particulate Size	Not relevant	Particulate Type	Not relevant

General Properties			
Boiling Point	N/A	Melting Point	100° C Initiation
Decomposition Temperature	150° C Initiation	Heat of Decomposition	
pH	Neutral	Specific Gravity/Relative Density	.991
Water Solubility	Insoluble	Vapor Density	N/A
Viscosity	N/A	Auto-ignition	N/A

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Vapor Pressure	N/A	Flammability (solid, gas)	N/A
Evaporation Rate	N/A	Octanol/Water Partition coefficient	Data lacking
Flash Point	>180 C		
LEL	N/A		

Section 10 – Stability and Reactivity

Chemical Stability	Stable under normal temperatures and pressures.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Possibility of hazardous reactions	Oxidizers
Incompatible materials	N/A
Hazardous decomposition products	Carbon monoxide and carbon dioxide. Other products may be generated. Use in well-ventilated areas and avoid breathing or contacting solid and gaseous products of decomposition.

Section 11 - Toxicological Information

Information on toxicological effects	
Reported Human Effects:	Products/Similar Product – No human data are available for this product.
Reported Animal Effects:	Products/Similar Product – No animal data are available for this product.
Route(s) of entry/exposure	Inhalation, Skin, Eye, Ingestion
Inhalation:	
Acute (Immediate)	May cause irritation as a nuisance dust
Chronic (Delayed)	No data available
Skin:	
Acute (Immediate)	Causes skin irritation
Chronic (Delayed)	Repeated and prolonged exposure may cause dermatitis
Eye:	
Acute (Immediate)	May cause mild eye irritation
Chronic (Delayed)	No data available
Ingestion:	
Acute (Immediate)	May cause irritation

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Chronic (Delayed)	No data available
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Section 12 - Ecological Information

Toxicity	Material data lacking
Persistence and degradability	Material data lacking
Bio-accumulative potential	Material data lacking
Mobility in Soil	Material data lacking
Other adverse effects	Not available
Other Information	Not available

Section 13 - Disposal Considerations

Waste treatment methods	
Product waste	Material data lacking
Packaging waste	Material data lacking

Section 14 - Transport Information

Special precautions for user	None specified
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This product is provided only in non-bulk containers.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

EPA	Chemical Name	Sec. 302 (EHS) TPQ (in pounds) ¹	EHS RQ (in pounds) ²	CERCLA Reportable Quantity (in pounds) ³	Subject to Sec. 313 Reporting ⁴
CAS Number					
110-30-5	Stearic Wax (mixture)	not listed	not listed	not listed	not listed
9002-88-4	Olefin Wax	not listed	not listed	not listed	not listed
63231-60-7	Petroleum Wax	not listed	not listed	not listed	not listed
143-07-7	Fatty Acid Mixture	not listed	not listed	not listed	not listed
57-11-4	Fatty Acid Mixture	not listed	not listed	not listed	not listed

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31570-04-4	Proprietary surface agent	not listed	not listed	not listed	not listed
149-57-5	Proprietary surface agent	not listed	not listed	not listed	not listed

¹ The presence of EHSs in quantities in excess of the Threshold Planning Quantity (TPQ) requires certain emergency planning activities to be conducted. (Appendix B to 40 CFR 355)

² Releases of reportable quantities (RQ) of EHSs are subject to state and local reporting under section 304 of SARA Title III (EPCRA). (40 CFR 302.4)

³ Releases of CERCLA hazardous substances, in quantities equal to or greater than their reportable quantity (RQ), are subject to reporting to the National Response Center under CERCLA. (Appendix A to 40 CFR 172.101)

⁴ Emissions, transfers, and waste management data for chemicals listed under section 313 must be reported annually as part of the community right-to-know provisions of SARA Title III (EPCRA) (40 CFR Part 372).

Section 16 - Other Information

Last revision date	1-1-17 CAS 6321-60-7
Preparation date	5/7/15

Disclaimer/statement of liability

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

The information herein is given in good faith, but no warranty, expressed or implied, is made. Consult APEX Advanced Technologies, LLC for further information.