Safety Data Sheet



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Version 2

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

Product identifier **Product name** Sierra Type C Gear Lubricant Other means of identification Product Code(s) 18-9620-0, 18-9620-2, 18-9620-2R, 18-9620-5 No information available Synonyms Recommended use of the chemical and restrictions on use **Recommended Use** Gear Oil. Lubricant. Uses advised against All Other Uses Details of the supplier of the safety data sheet **Manufacturer Address** Sierra International 1 Sierra Place Litchfield, IL 62056 Tel: 217-324-9400 Emergency telephone number **Company Emergency Phone** (618)542-5431 Number **Emergency telephone number** Chemtrec 1-800-424-9300 2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

EMERGENCY OVERVIEW

Appearance brown

Physical state viscous liquid

Odor Mild petroleum odor Petroleum distillates

Hazards not otherwise classified (HNOC)

Other information Unknown Aquatic Toxicty

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name Chemical Family Petroleum based lubricating fluid. Petroleum hydrocarbon mixture.

Chemical name	CAS-No	Weight %	Trade secret
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	74.4	*
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	19.71	*
Methacrylate copolymer	Proprietary	1.41-2.82	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice No hazards	which require special first aid measures.		
Eye contact Flush eyes	or 30 minutes with water. Get medical attention if irritation persists.		
washing wit	taminated shoes and clothing and cleanse affected area(s) thoroughly by n mild soap and water or a waterless hand cleaner. If irritation or redness d persists, seek medical attention.		
Inhalation Move expos	ed persons to fresh air. Consult medical personnel if breathing issues occur.		
Ingestion Do NOT ind	uce vomiting. Consult a physician.		
Most important symptoms and effects, both acute and delayed			
Symptoms No informat	on available.		
Indication of any immediate medical attention and special treatment needed			
Notes to Physician Treat sympt	omatically.		
5. FIRE-FIGHTING MEASURES			

Suitable extinguishing media

Carbon dioxide (CO₂). Dry chemical. Foam. Water can be used to keep surrounding materials cool.

Small Fires	Always use personal safety equipment. Follow appropriate personal safety procedures, and extinguishing media.
Large Fires	Contact emergency personnel.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Combustible material.

Hazardous combustion productsCarbon monoxide. Carbon dioxide (CO₂).

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal protection	Avoid contact with the skin and the eyes. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. Wash skin with soap and water if contact occurs. Launder soiled clothing. If spilled, take caution, as material can cause surfaces to become very slippery.		
Other information	Small spill: Remove sources of heat or ignition, provide adequate ventilation, contain leak using absorbent, inert, non-combustible material. Large Spill: Contain spill, transfer to secure containers. In the event of an uncontrolled material release, the user should determine if release is reportable under applicable laws and regulations.		
For emergency responders	Clean up area with absorbent material and place in closed containers for disposal.		
Environmental precautions			
Environmental precautions	See Section 12 for additional Ecological Information.		
Methods and material for containme	ent and cleaning up		
Methods for containment	Cover with earth, sand, or other non-combustible material followed with plastic sheets to minimize spreading or contact with rain.		
Methods for cleaning up	Excess liquid material can be collected using a scoop or shovel and stored for recycling or disposal. Prevent material from entering drains or waterways.		
	7. HANDLING AND STORAGE		
Precautions for safe handling			
Advice on safe handling	Avoid contact with skin, eyes and clothing. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. If contact is made, wash skin with soap and water. Launder soiled clothing. Maximum handling temperature is 70 degrees C (158 F). It is recommended to pump or transfer material at ambient temperature.		
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Keep away from heat and sources of ignition. Keep containers closed when not in use. Follow first aid measures if contact occurs, and spill procedures if spill occurs. For packaged material: Store in a cool dry area. For bulk material: store in cool dry area. Always follow local, state, and federal guidlines for storage of material for amount stored.		
Incompatible Products	Strong oxidizing agents.		
8. EXF	POSURE CONTROLS/PERSONAL PROTECTION		
Control parameters			
Exposure guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.		
Appropriate engineering controls			
Engineering Controls	Showers Eyewash stations Ventilation systems.		
Individual protection measures, such as personal protective equipment			
Eye/face Protection	If splashes are likely to occur, wear:. Goggles. Eye/face Protection.		

Skin and body protection	Long sleeved clothing. Protective gloves can be worn, if material comes in contact with skin wash with soap and water.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance	viscous liquid brown	Odor	Mild petroleum odor	
Color	brown	Odor threshold	Petroleum distillates No information available	
Property pH Melting point/freezing point Boiling Point/Range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Lower flammability limit: Vapor pressure Vapor density Specific gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties	ValuesNo information availableNo information availableNo information available> 93.3 °C / > 200 °FNo information availableNo information available	Remarks • Method		
Softening point	No information available			
VOC Content	No information available No information available			
Density Bulk density	No information available			
10. STABILITY AND REACTIVITY				

Reactivity No data available

<u>Chemical stability</u> Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	No data available
Inhalation	No data available.
Eye contact	May cause slight irritation.
Skin contact	No data available.
Ingestion	Do NOT taste or swallow.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lubricating oils, petroleum, hydrotreated spent 64742-58-1	> 2000 mg/kg (Rat)	> 4480 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	Mineral oils are known to cause cancer because of carcinogenic components (e.g. benzene). The mineral oil in this product is highly refined and should not be considered a carcinogen. Used lubricating oil may contain hazardous components which have the potential to cause skin cancer. Continuous long-term contact with used lubricating oils has caused skin cancer in animal tests.

Chemical name	ACGIH	IARC	NTP	OSHA
Petroleum distillates,	-	Group 1	-	Х
hydrotreated heavy				
paraffinic				
64742-54-7				

Reproductive toxicityNo information available.STOT - single exposureNo information available.STOT - repeated exposureNo information available.Aspiration hazardNo information available.

Numerical measures of toxicity - Product Information

Unknown Aquatic Toxicty0% of the mixture consists of ingredient(s) of unknown toxicityThe following values are calculated based on chapter 3.1 of the GHS document .ATEmix (oral)5196 mg/kgATEmix (dermal)5196 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

5.04% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Lubricating oils, petroleum, hydrotreated spent 64742-58-1	-	3.2: 96 h Pimephales promelas mg/L LC50 semi-static 79.6: 96 h Brachydanio rerio mg/L LC50 semi-static	-
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	-	5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Waste Disposal Method	

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

14. TRANSPORT INFORMATION

DOT

Not regulated

Do not reuse container.

IATA

PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO TI OR IATA DGR

15. REGULATORY INFORMATION				
International Inventories				
TSCA	Does not comply			
DSL/NDSL	Does not comply			
EINECS/ELINCS	Does not comply			
ENCS	Does not comply			
IECSC	Does not comply			
KECL	Does not comply			
PICCS	Does not comply			
AICS	Does not comply			

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories	
Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide registration number Not Applicable

16. OTHER INFORMATION						
<u>NFPA</u>	Health hazards 0	Flammability 1	Instability 0	Physical and Chemical Hazards -		
HMIS	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection X		
Issuing Date	17-Jul-20	13				
Revision Date	17-Feb-2	015				
Revision Note						
SDS sections updated 1	23567910111416					
Disclaimer						
The information provid	ed on this SDS is corre	ect to the best of our kn	owledge, information and I	belief at the date of its		

publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS