

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

**Product identifier**

**Product Name:** SYNTHETIC GEAR OIL

**Other means of identification**

**Common Name:** 6000  
**UN/ID No** Not regulated  
**Synonyms** None  
**Product Categories** Automotive Gear Lubricant

**Recommended use of the chemical and restrictions on use**

**Sale and Use Restrictions** Not applicable  
**Recommended Use** Restricted to professional users.  
**Uses advised against** Consumer use

**Details of the supplier of the safety data sheet**

**Supplier Address**  
ACEL, LLC.  
6826 Hill Park Dr. Suite #100  
Lorton, VA 22079

**Emergency telephone number**

**Company Phone Number** ACEL, LLC. (888) 801-2507  
**Emergency Telephone** CHEMTREC 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**Classification**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Label elements**

**Emergency Overview**

**Appearance** Oil **Physical state** Liquid **Odor** Petroleum

**Precautionary Statements - Response**

**Hazards not otherwise classified (HNOC)**

**Other information**  
20 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	Trade Secret
Petroleum distillates, hydrotreated light	64742-55-8	0-70	*

paraffinic			
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	0-70	*
Butene, homopolymer	9003-29-6	10-30	*
Distillates (Petroleum), Hydrotreated Light Naphthenic	64742-53-6	2-6	*

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

#### 4. FIRST AID MEASURES

##### First aid measures

<b>General advice</b>	If symptoms persist, call a physician.
<b>Skin contact</b>	Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.
<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Administer oxygen if breathing is difficult. If unconscious, place in recovery position and seek medical attention immediately.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
<b>Ingestion</b>	Do not induce vomiting. Call a physician or Poison Control Center immediately.

##### Most important symptoms and effects, both acute and delayed

**Symptoms** Drowsiness, Dizziness, Coughing and/ or wheezing; Skin irritation, Eye irritation.

##### Indication of any immediate medical attention and special treatment needed

**Self-protection of the first aider** Low hazard for usual industrial or commercial handling.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media:

Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam.

**Small Fire** Dry chemical or CO<sub>2</sub>.

**Large Fire** Foam.

**Explosive properties:** Risk of explosion if heated under confinement: Fire or intense heat may cause violent rupture of packages.

##### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Runoff may pollute waterways.

**Hazardous combustion products** Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

##### Specific methods:

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames.

##### Special firefighting procedures:

No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. Dike to collect large liquid spills. Do not allow run-off from fire-fighting to enter drains or water courses. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid spreading burning liquid with water used for cooling purposes. Do not use water jet. Water mist may be used to cool closed containers. Move containers from fire area if you can do it without risk.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Do not touch or walk through spilled material. Use personal protective equipment. See Section 8 for information on appropriate personal protective equipment. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing.

**For emergency responders** Use personal protection recommended in Section 8.

### Environmental precautions

**Environmental precautions:** Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

### Methods and material for containment and cleaning up

**Methods for Containment** Dike far ahead of spill; use dry sand to contain the flow of material. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

**Methods for clean-up:** Clean-up methods - small spillage. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to state, local, federal regulations. Clean with detergents. Avoid solvents. Clean-up methods - large spillage. Keep unnecessary personnel away. Dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilled material with soil and prevent runoff entering surface waterways.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling:** Protect from physical damage. Keep container tightly closed in a dry and well-ventilated place. Do not store at temperatures above 120°F (50°C). Keep product and empty container away from heat and sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers retain product residue and can be hazardous.

### Conditions for safe storage, including any incompatibilities

**Technical measures/precautions:** Ensure adequate ventilation. Eye wash and safety shower should be easily accessible.

**Materials to avoid:** Strong oxidizing agents, Strong reducing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Components	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Petroleum distillates, hydrotreated light paraffinic 64742-55-8	-	Not established	-
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	5 mg/m <sup>3</sup> (mist): TWA, 10mg/m <sup>3</sup> (mist): STEL	5 mg/m <sup>3</sup> (oil mist) TWA	-
Butene, homopolymer 9003-29-6	-	Not established	-
Distillates (Petroleum), Hydrotreated Light Naphthenic	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> (mist)	-

64742-53-6

**Appropriate engineering controls**

**Engineering measures:** Ensure adequate ventilation. Eye wash and safety shower should be easily accessible.

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear: Face protection shield.
<b>Skin and body protection</b>	Wear normal work clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact: (consult with the specific manufacturer to confirm performance).
<b>Respiratory protection</b>	Ensure adequate ventilation. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Wash face, hands and any exposed skin thoroughly after handling. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Take off contaminated clothing and wash it before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Petroleum
<b>Appearance</b>	Oil	<b>Odor threshold</b>	No information available
<b>Color</b>	Clear Light Amber		

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>pH</b>	N/A	Not applicable
<b>Melting point/freezing point</b>	No information available	
<b>Boiling point / boiling range</b>	No information is available . / .	
<b>Flash point</b>	> 150 °C / 302 °F	
<b>Evaporation rate</b>	Slower than ether	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No Data Available	
<b>Lower flammability limit</b>	No Data Available	
<b>Vapor pressure</b>	<0.0013	Vapor Pressure @20°C (kPa)
<b>Vapor density</b>	>1 (air = 1)	Heavier than air
<b>Specific Gravity</b>	0.87	
<b>Water solubility</b>	Negligible	
<b>Solubility in other solvents</b>	No Data Available	
<b>Partition coefficient</b>	No Data Available	
<b>Autoignition temperature</b>	No Data Available	
<b>Decomposition temperature</b>	No Data Available	
<b>Kinematic viscosity</b>	23-26 mm <sup>2</sup> /s	@ 100 °C
<b>Dynamic viscosity</b>	64000 cPs	@ -40 °C
<b>Explosive properties</b>	No Data Available	
<b>Oxidizing properties</b>	No Data Available	

**Other information**

<b>Softening point</b>	No Data Available
<b>Molecular weight</b>	No Data Available
<b>VOC Content (%)</b>	
<b>VOC Content (%)</b>	None

Density 0.87 g/cc  
Bulk density No Data Available

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactivity Stable.

### Chemical stability

**Possibility of Hazardous Reactions** May react with oxidizing agents.  
**Hazardous polymerization** Hazardous polymerization does not occur.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

**Materials to avoid:** Strong oxidizing agents, Strong reducing agents.

### Hazardous Decomposition Products

**Hazardous Decomposition Products** Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** May be harmful if swallowed. May cause eye and skin irritation.

**Inhalation** Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

**Eye contact** Contact with eyes may cause irritation.

**Skin Contact** May cause irritation. Repeated exposure may cause skin dryness or cracking.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Potential for aspiration if swallowed.

Components	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated light paraffinic 64742-55-8	>2000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	= 3900 mg/m <sup>3</sup> ( Rat ) 4 h
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Butene, homopolymer 9003-29-6	=34600 mg/kg ( Rat )	= 10250 mg/kg ( Rabbit )	-
Distillates (Petroleum), Hydrotreated Light Naphthenic 64742-53-6	>5000 g/kg ( Rat )	>2000 mg/kg ( Rabbit )	-

### Information on toxicological effects

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

**Sensitization** Skin Sensitization: Not expected. Respiratory Sensitization: Not classified.

**Mutagenic effects:** No data available to indicate product or any components present at or greater than 0.1% are mutagenic or genotoxic.

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

**Reproductive toxicity** No information available.

<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified.
<b>Chronic toxicity</b>	Prolonged skin contact may defat the skin and produce dermatitis.
<b>Subchronic toxicity</b>	No information available.
<b>Target Organ Effects</b>	Skin; Eyes, Respiratory system.
<b>Neurological effects</b>	No information available.
<b>Other adverse effects</b>	No information available.
<b>Aspiration hazard</b>	Risk of serious damage to the lungs (by aspiration).

**Numerical measures of toxicity - Product Information**

**Unknown Acute Toxicity** 20 % of the mixture consists of ingredient(s) of unknown toxicity

**The following values are calculated based on chapter 3.1 of the GHS document .**

<b>ATEmix (oral)</b>	17143 mg/kg
<b>ATEmix (dermal)</b>	5000 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	40 mg/l
<b>ATEmix (inhalation-vapor)</b>	4457 mg/l

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

20 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Components	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum distillates, hydrotreated light paraffinic 64742-55-8		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Distillates (Petroleum), Hydrotreated Light Naphthenic 64742-53-6		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50

**Persistence and degradability**

No information available.

**Bioaccumulation**

Bioaccumulative potential.

**Mobility**

The product is insoluble and floats on water.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal of wastes**

Dispose of in accordance with federal, state and local regulations.

**Contaminated packaging**

Do not reuse container. Dispose of in accordance with federal, state and local regulations.

**14. TRANSPORT INFORMATION****DOT**

Not regulated

**IATA** Not regulated

**IMDG** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

#### Legend:

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*  
*DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*

### 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

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

#### CWA (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.

### State Regulations (RTK)

#### 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

#### NFPA Rating

**Health hazards** 0

**Flammability** 1

**Instability** 0

**Physical and Chemical Properties** -

#### HMIS Rating

**Health hazards** 0

**Flammability** 1

**Physical hazards** 0

**Personal protection** C

**Prepared by**

Environmental Health and Safety Department

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**Revision Note**

This data sheet contains changes from the previous version in section(s): 3, 4,5, 6, 7, 8, 9, 10

**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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**