

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

Product identifier

Product Name: POWER STEERING SOLUTION

Other means of identification

Common Name: 5000
UN/ID No Not Regulated
Synonyms None
Product Categories lubricant additives

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

Skin sensitization	Category 1
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Label elements

Emergency Overview

Warning		
Hazard statements May cause an allergic skin reaction		
		
Appearance Oil	Physical state Liquid	Odor Bland

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves

Precautionary Statements - Response

Specific treatment (see response statements below and Section 4 of the Safety Data Sheet)

IF ON SKIN: Wash with plenty of soap and water
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other information**

- May be harmful if swallowed
 - Toxic to aquatic life with long lasting effects
- 3.62 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	Trade Secret
Hydrotreated Heavy Paraffinic Oil	64742-54-7	0-95	*
Mineral Oil	64742-58-1	0-75	*
Aliphatic Petroleum Distillates	64742-65-0	0-75	*
Highly Refined Mineral Oil (C15-C50)	MIXTURE	1-4	*
Mineral Oil	MIXTURE	1-4	*
Hydrotreated Light Paraffinic Oil	64742-55-8	1-3	*
Ethylene-Propylene Copolymer	PROPRIETARY	0.1-0.4	*

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

4. FIRST AID MEASURES

First aid measures**Skin contact**

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Inhalation

Remove to fresh air. Get medical attention if symptoms occur.

Eye contact

Immediately flush eyes for at least 15 minutes. Get medical attention.

Ingestion

If swallowed, call a poison control center or physician immediately. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. Call a physician.

Most important symptoms and effects, both acute and delayed**Symptoms**

Drowsiness, Dizziness, Coughing and/ or wheezing; Eye irritation, Diarrhea, Nausea, Skin irritation: May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed**Self-protection of the first aider**

Avoid contact with skin.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use water spray (fog), foam, dry chemical or CO2.

Small Fire

Dry chemical or CO2.

Large Fire	Water spray or fog; 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. Product is or contains a sensitizer: May cause sensitization by skin contact.

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO₂), Hydrocarbons, Aldehydes, Phosphorus oxides, Oxides of sulfur, Nitrogen oxides (NO_x), Volatile organic compounds, Smoke.

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. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Water mist may be used to cool closed containers. Do not use water jet. Water may cause frothing of heated materials. Move containers from fire area if you can do it without risk. Avoid spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Keep people away from and upwind of spill/leak. Use personal protective equipment. See Section 8 for information on appropriate personal protective equipment. Contaminated surfaces will be extremely slippery.

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. Water runoff can cause environmental damage. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. 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-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. Do not store at temperatures above 120°F (50°C). Keep containers tightly closed in a cool, well-ventilated place.

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, Chlorine, Reducing agents, Strong acids, Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

Components	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Hydrotreated Heavy Paraffinic Oil 64742-54-7	5 mg/m ³ TWA (mist) 10 mg/m ³ STEL (mist)	5 mg/m ³	-
Mineral Oil 64742-58-1	5 mg/m ³ (mist)	5 mg/m ³ (mist)	-
Aliphatic Petroleum Distillates 64742-65-0	-	Not established	-
Highly Refined Mineral Oil (C15-C50) MIXTURE	-	Not established	-
Mineral Oil MIXTURE	5 mg/m ³ TWA (mist) 10 mg/m ³ STEL (mist)	5 mg/m ³	-
Hydrotreated Light Paraffinic Oil 64742-55-8	5 mg/m ³	5 mg/m ³	-
Ethylene-Propylene Copolymer PROPRIETARY	-	Not established	-

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

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear normal work clothing. Chemical resistant gloves: (consult with the specific manufacturer to confirm performance).
Respiratory protection	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.

General Hygiene Considerations 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. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

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

Physical state	Liquid	Odor	Bland
Appearance	Oil	Odor threshold	No information available
Color	Clear Amber		
Property	Values	Remarks • Method	
pH	N/A	Not applicable	
Melting point/freezing point	No information available		
Boiling point / boiling range	> 253 °C / 487 °F	(based on components)	
Flash point	> 120 °C / 248 °F	(based on components)	
Evaporation rate	Slower than ether	Slower than ether	
Flammability (solid, gas)	No information available		

Flammability Limits in Air

Upper flammability limit	No Data Available
Lower flammability limit	No Data Available
Vapor pressure	No Data Available
Vapor density	Heavier than air
Specific Gravity	0.85
Water solubility	Insoluble in water
Solubility in other solvents	No Data Available
Partition coefficient	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Kinematic viscosity	7.3 mm ² /s @ 100 °C
Dynamic viscosity	No Data Available
Explosive properties	No Data Available
Oxidizing properties	No Data Available

Other information

Softening point	No Data Available
Molecular weight	No Data Available
VOC Content (%)	
VOC Content (%)	Negligible
Density	0.85 g/cc
Bulk density	No Data Available

10. STABILITY AND REACTIVITY**Reactivity**

Reactivity Stable.

Chemical stability

Possibility of Hazardous Reactions None under normal processing.
Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks. Incompatible materials.

Incompatible materials**Materials to avoid:** Strong oxidizing agents, Chlorine, Reducing agents, Strong acids, Strong bases.**Hazardous Decomposition Products****Hazardous Decomposition Products** Carbon monoxide, Carbon dioxide (CO₂), Aldehydes, Hydrocarbons, Phosphorus oxides, Nitrogen oxides (NO_x), Sulfur oxides (SO_x), Volatile organic compounds.**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

May cause allergic skin reaction. May be harmful if swallowed. May cause eye irritation. May cause 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. May cause allergic skin reaction.

Ingestion

Potential for aspiration if swallowed.

Components	Oral LD50	Dermal LD50	Inhalation LC50
Hydrotreated Heavy Paraffinic Oil 64742-54-7	>5000mg/kg (Rat)	>5000 mg/kg (Rabbit)	-
Mineral Oil 64742-58-1	> 2000 mg/kg (Rat)	> 4480 mg/kg (Rabbit)	-
Aliphatic Petroleum Distillates 64742-65-0	-	-	-
Highly Refined Mineral Oil (C15-C50) MIXTURE	-	-	-
Mineral Oil MIXTURE	25000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	-
Hydrotreated Light Paraffinic Oil 64742-55-8	>5000 mg/kg	>2000 mg/kg	= 3900 mg/m ³ (Rat) 4 h
Ethylene-Propylene Copolymer PROPRIETARY	-	-	-

Information on toxicological effects**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Sensitization	May cause allergic skin reaction.
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.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Chronic toxicity	No information available.
Subchronic toxicity	No information available.
Target Organ Effects	Skin, Eyes, Respiratory system, Kidney, Liver.
Neurological effects	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Other adverse effects	No information available.
Aspiration hazard	Risk of serious damage to the lungs (by aspiration).

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity	3.62 % of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document .	
ATEmix (oral)	2497 mg/kg
ATEmix (dermal)	6609 mg/kg
ATEmix (inhalation-dust/mist)	103.1 mg/l
ATEmix (inhalation-vapor)	31837 mg/l

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Chronic Aquatic Toxicity: Toxic to aquatic life with long lasting effects.

6.23 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Components	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrotreated Heavy Paraffinic Oil 64742-54-7		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Mineral Oil 64742-58-1		79.6: 96 h Brachydanio rerio mg/L LC50 semi-static 3.2: 96 h Pimephales promelas mg/L LC50 semi-static		

Aliphatic Petroleum Distillates 64742-65-0		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Mineral Oil MIXTURE	>100: 3d Scenedesmus quadricauda mg/L EC50	>100:4d Fathead Minnow mg/L LC50		>10000: 2d Daphnia magna mg/L EC50
Hydrotreated Light Paraffinic Oil 64742-55-8		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50

Persistence and degradability

NOT READILY BIODEGRADABLE.

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/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List***Federal Regulations****SARA 313**

No SARA 313 chemicals are present above the reporting threshold.

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	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 contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

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 1

Flammability 1

Instability 0

Physical and Chemical Properties -

HMIS Rating

Health hazards 1*

Flammability 1

Physical hazards 0

Personal protection B

Chronic Hazard Star Legend

* = Chronic Health Hazard

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): 2,3,4,5,6,7,8,10,11,12

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