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Safety Data Sheet

Issue Date 11-Feb-2013

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

Product identifier

Product Name Simplex 150 Hydraulic Oil
 Simplex 18139, 44818

Other means of identification

Product Code 161
Revision Number 2662
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant.
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address
 U.S. Lubricants A Division of U.S. Venture, Inc. 425 Better Way Appleton, WI 54915

Emergency telephone number

Company Phone Number 800-490-4900
24 Hour Emergency Phone Number 800-424-9300 (CHEMTREC 705487)

2. HAZARDS IDENTIFICATION

Classification

Skin Sensitizer	Category 1
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Unknown Toxicity

Acute Toxicity, Oral	0.0%
Acute Toxicity, Dermal	0.0%
Acute Toxicity, Inhalation, Vapor	0.3456%
Acute Toxicity, Inhalation, dust or mist	0.3456%

Label elements

Emergency Overview

Warning
Hazard statements May cause an allergic skin reaction

**Appearance** Viscous**Physical state** Liquid**Odor** Mild Petroleum**Precautionary Statements - Prevention**

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

Response

If on Skin: Wash with plenty of water. If skin irritation persists seek medical attention.

Disposal

Dispose of contents/container to an appropriate treatment or disposal facility in accordance with applicable laws and regulations and product characteristics at time of disposal

- Harmful to aquatic life with long lasting effects
- Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	90-99
Zinc alkyldithiophosphate	4259-15-8	< 1

4. FIRST AID MEASURES

First aid measures

Eye contact	Rinse thoroughly with plenty of water for at least 20 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Rinse thoroughly with plenty of water for at least 20 minutes. If skin irritation persists, call a physician. Wash contaminated clothing before reuse. Wash with soap and water.
Inhalation	Remove to fresh air. Administer oxygen if breathing is difficult. Use only artificial respiration if victim is not breathing. If symptoms continue seek medical attention.
Ingestion	Do NOT induce vomiting. Get medical attention. Drink 1 or 2 glasses of water.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Large Fires: water spray, fog or regular foam. Small fires: dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient. Do not use a water jet.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available.

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.

UNUSUAL FIRE & EXPLOSION HAZARDS

Toxic Fumes may be evolved on burning or exposure to heat (Carbon Monoxide and others). Pressure may increase in overheated closed containers. Store below 120°F

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal precautions Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Stop leak if you can do it without risk. Do not walk through spill.

Environmental precautions

Environmental precautions Keep unauthorized personnel away. Stay upwind. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Prevent product from entering drains. Pick up and transfer to properly labeled containers.

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

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing fume/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a dry, cool and well-ventilated place. Use mild steel or High Density Polyethylene containers. Do not use PVC. Store at temperatures not exceeding 120°F.

Incompatible materials Incompatible with oxidizing agents. Incompatible with strong acids and bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical	Type	Exposure Limit Values	Source
Petroleum distillates, hydrotreated heavy paraffinic	TWA	5 mg/m ³	ACGIH
Toluene	TWA	20 ppm	ACGIH

Biological Limit Values

Chemical	Type	Source
Toluene(o-cresol, with hydrolysis: Sampling time: End of shift)	0.3 mg/g (Creatinine in Urine)	ACGIH BEI
Toluene (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEI
Toluene (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEI

Appropriate engineering controls

Engineering Controls

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear protective nitrile or Neoprene™ gloves. Use good industrial hygiene practices. Avoid skin contact, in case of skin contact wash effected area with soap and water.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General Hygiene Considerations

Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Mild Petroleum
Appearance	Viscous	Odor threshold	No information available
Color	Light amber		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Essentially Neutral	
Melting point/freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	400°F	
Evaporation rate	Less than 0.01 (@1ATM and 25°C. n-butyl acetate=1	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	10% (Estimated Value)	
Lower flammability limit:	1% (Estimated Value)	
Vapor pressure	Less than 0.01 mm HG	
Vapor density	Greater than 1 (Air=1)	
Specific Gravity	0.860 lbs/gal: 7.16	
Water solubility	Insoluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	30-34 cSt@ 40°C	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	Negligible
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY**Reactivity**

Not Applicable

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Strong oxidizing agents. Heat, flames and sparks. Extreme temperatures and direct sunlight.

Incompatible materials

Incompatible with oxidizing agents. Incompatible with strong acids and bases.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	No data available.
Inhalation	Avoid breathing vapors or mists. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Eye contact	Contact with eyes may cause irritation.
Skin Contact	Contact may cause redness and irritation.
Ingestion	Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhea.

Chemical Name	Oral LD50	Dermal LD50	Inhalation TClO
Zinc alkyldithiophosphate	= 3100 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Petroleum distillates, hydrotreated heavy paraffinic	> 15g/kg (Rat)	> 5 g/kg (Rabbit)	1000 mg/m ³ (4 wks)

Information on toxicological effects

Symptoms No information available.

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

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Irritating to eyes.
Irritation	May cause skin and eye irritation. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.
Sensitization	Category 1 Skin Sensitization
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

0.01% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	No information available	No information available		No information available

Zinc alkyldithiophosphate 4259-15-8	EC 50 (Scenedesmus quadricauda, 3 d): 410 mg/l NOEC (Scenedesmus quadricauda, 3 d): 220 mg/l	LC 50 (Rainbow Trout, 4 d): 4.4 mg/l NOEC (Rainbow Trout, 4 d): 3.2 mg/l		EC 50 (Daphnia magna, 2 d): 75 mg/l NOEC (Daphnia magna, 2 d): 32 mg/l EC 50 (Daphnia magna, 21 d): >0.8 mg/l NOEC (Daphnia magna, 21 d): 0.4 mg/l
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Persistence and degradability

Chemical Name	Partition coefficient
Zinc alkyldithiophosphate 4259-15-8	Log Kow: 3.6

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT Not regulated

ICAO (air) Not regulated

IATA Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA All components of this material are on the US TSCA Inventory or are exempt.

DSL/NDSL All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

EINECS/ELINCS Complies

ENCS Complies

IECSC Complies

KECL Complies

PICCS Complies

AICS Complies

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 Chemical Substances/European 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

US 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

Chemical Name	CAS No.	SARA 313 - Threshold Values %
Zinc alkyldithiophosphate	4259-15-8	1.0
Toluene	108-88-3	1.0

SARA 304 Emergency Release Notification

Chemical Identity	Cas No.	Percent by weight	Reportable Quantity
Toluene	108-88-3	<.01%	1000 lbs.
Zinc alkyldithiophosphate	4259-15-8	<1%	See regulation for further details
Aryl phosphite	101-02-0	<0.1%	See regulation for further details
Maleic anhydride	108-31-6	<10 ppm	5000 lbs
Phenol	108-95-2	<1 ppm	1000 lbs
Vinyl acetate	108-05-4	<1 ppm	5000

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	Product Contains Toluene (<0.01%) which is listed.
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)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc alkyldithiophosphate 4259-15-8		X		

CERCLA

Chemical Name	Reportable Quantity	Necessary Release of mixture
Toluene (108-88-3)	1000 lbs.	> 34 million lbs.
Maleic Anhydride (108-31-6)	5000 lbs.	> 2.3 billion lbs.
Phenol (108-95-2)	1000 lbs.	> 2.1 billion lbs.
Vinyl Acetate (108-05-4)	5000 lbs.	> 15 billion lbs.

US State Regulations**California Proposition 65**

Warning: This product contains substances known to the State of California to cause birth defects or other reproductive harm.

Toluene

Benzene

Warning: This product contains substances known to the State of California to cause cancer.

Benzene

Ethyl Acrylate

Ethylbenzene

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Zinc alkyldithiophosphate 4259-15-8	X		X

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards 1	Flammability 1	Instability 0	Physical and Chemical Properties -
<u>HMS</u>	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection X

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Revision Note

No information available

Disclaimer

The information provided in this 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