



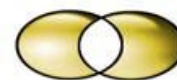
SAFETY DATA SHEET

SECTION 1.0	PRODUCT AND COMPANY IDENTIFICATION
--------------------	---

Product Identifier	UNISHIELD® 61 JS
Other means of identification	Distillate, Petroleum
Recommended use (identified)	Transformer Oil
Recommended restrictions	Not intended to be used as a fuel
Manufacturer/Importer/Supplier/Distributor Information	UNISOURCE-ENERGY, LLC 40 Shuman Blvd, Suite 290 Naperville, IL 60563
E-mail	orders@unisource-energy.com
Telephone number	Phone: 630-470-6030 Fax: 630-470-6031
Emergency telephone number	UNISOURCE-ENERGY, LLC 1-800-444-5510 CHEMTREC 1-800-424-9300

SECTION 2.0	HAZARD(S) IDENTIFICATION
--------------------	---------------------------------

Routes of Entry	Eyes: Yes	Skin: Yes	Ingestion: Yes	Inhalation: Yes
OSHA/HCS status	Irritant			
GHS label elements				
Signal word	Warning			
Hazard statement	Skin & eye irritant reversible adverse effects = GHS Cat. 2			
Potential Health Effects				
Eyes	Eye contact may result in irritation and redness. Exposure to high concentrations of vapors may be irritating to the eyes			



SAFETY DATA SHEET

Skin	Prolonged and repeated contact can defat the skin, which may result in dryness, dermatitis and cracking of the skin.
Ingestion	Do not ingest. Ingestion may result in nausea or stomach discomfort. If swallowed do not induce vomiting, call a physician.
Inhalation	Fumes may be unpleasant and may produce nausea. Remove the person to fresh air if respiratory discomfort occurs.
Medical Conditions Aggravated by Exposure	Persons with preexisting skin or respiratory disorders may have their conditions aggravated by overexposure to this material.

SECTION 3.0	COMPOSITION/INFORMATION ON INGREDIENTS
--------------------	---

Chemical Family

DISTILLATE (PETROLEUM) HYDROTREATED LIGHT NAPHTHENIC

Hazardous Component(s)	CAL-OSHA PEL – TWA (8 hour)	ACGIH TLV – TWA (8 hour)	Other Limits Recommended	% by weight
Distillates, Petroleum, Hydrotreated Light Naphthenic CAS No. 64742-53-6	5 mg/m ³ (As oil mist)	5 mg/m ³ (As oil mist)	None	>99
2, 6-Di-t-butyl-p-cresol (BHT) CAS No. 128-37-0	5 mg/m ³ (Nuisance Particulates)	2 mg/m ³ (Inhalable aerosol and/or vapor)	10 mg/m ³	<1

SECTION 4.0	FIRST AID MEASURES
--------------------	---------------------------

Description of necessary first aid measures

Eye contact	Avoid contact with eyes. If contact occurs, immediately flush eyes with water for a minimum of 15 minutes. Seek medical attention immediately.
Inhalation	Not expected to be a problem. However, if respiratory irritation, dizziness, nausea or unconsciousness occurs due to excessive vapor or mist exposure, seek medical attention. If operating conditions create airborne concentrations that exceed the exposure standard, the use of an approved



SAFETY DATA SHEET

Skin contact	NIOSH/OSHA respirator for organic vapors or air- supplied breathing equipment is recommended. Avoid contact with skin. If contact occurs, wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area
Ingestion	Do not induce vomiting. If ingested, seek medical attention.

SECTION 5.0	FIRE-FIGHTING MEASURES
--------------------	-------------------------------

Flammable Limits in Air (% by volume)	UPPER: No data available LOWER: No data available
Flash Point, COC, °F	293° Minimum
Suitable extinguishing media	Foam, water fog, dry chemical, CO ²
Special fire Fighting Procedures	Do not enter confined fire space without proper protective equipment Including self-contained breathing apparatus. See Hazardous Decomposition Products.
Hazardous Decomposition Products	Normal combustion forms carbon dioxide and water vapor, and may produce oxides of sulfur and nitrogen. Incomplete combustion can produce carbon monoxide.

SECTION 6.0	ACCIDENTAL RELEASE MEASURES
--------------------	------------------------------------

Personal Protection	Wear safety glasses, rubber gloves, Tyvek type coveralls and rubber boots.
Accidental Release Measures	In case of spill, clean up using absorbent material such as earth or sand.
RCRA Hazard Class	This product is not a characteristic hazardous waste under RCRA. No EPA waste numbers are applicable for this product's components.



SAFETY DATA SHEET

SECTION 7.0	HANDLING AND STORAGE
--------------------	-----------------------------

Personal Protection	Wear safety glasses, rubber gloves, Tyvek type coveralls and rubber boots
Handling and Storage	Avoid fire, sparks or open flame. Wear appropriate personal protective equipment to ensure that this product does not contact the eyes or skin
Ventilation	Use adequate ventilation to keep the airborne concentrations of this material below the established exposure standard.

SECTION 8.0	EXPOSURE CONTROLS/PERSONAL PROTECTION
--------------------	--

Respiratory Protection	If operating conditions create airborne concentrations that exceed the exposure standard for this product, the use of an approved NIOSH/OSHA respirator for organic vapors or air supplied breathing equipment is recommended.
Eye Protection	Wear appropriate safety glasses, goggles or full-face shield.
Skin Protection	Long sleeve cotton shirt and cotton pants are recommended. Wear appropriate gloves.

SECTION 9.0	PHYSICAL AND CHEMICAL PROPERTIES
--------------------	---

Appearance	Straw colored liquid
Odor	Petroleum odor
Odor threshold	No data available
pH	No data available
Melting point/freezing point	-40°F Max
Initial boiling point @760° mmHg	560° F
Flash point, COC °F	293° Minimum



SAFETY DATA SHEET

Evaporation rate (Ethyl Ether = 1)	<1
Flammability (solid, gas)	Not applicable
Percent Volatile (% by vol.)	0
Lower and upper explosive (flammable) limits	No data available
Vapor pressure (mm Hg)	@ 100° F < 0.1
Vapor density (Air=1)	4
Relative density	No data available
Solubility I water	Nil
Partition coefficient n-octanol/water	≥5.7
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Specific Gravity (H ₂ O = 1)	0.88

SECTION 10.0

STABILITY AND REACTIVITY

Stability	Stable
Conditions Contributing to Instability	None
Incompatible materials	May react with strong oxidizers.
Hazardous decomposition or By-products	Normal combustion forms carbon dioxide and water vapor, and may produce oxides of sulfur and nitrogen. Incomplete combustion can produce carbon monoxide.
Hazardous Polymerization	Will not occur

SECTION 11.0

TOXICOLOGICAL INFORMATION

Acute Studies	Low order of acute oral or dermal toxicity
Health Effects	Mild eye and skin irritant



SAFETY DATA SHEET

Carcinogenicity	ACGIH, NTP, OSHA and IARC carcinogen lists were checked for those components with CAS Registry Numbers (64742-53-6) & (128-37-0).
ACGIH	This product is not listed as carcinogenic.
IARC	The International Agency for Research on Cancer has concluded that highly or severely refined light and middle distillates are Group 3 substances, "not classifiable as to their carcinogenicity to humans," based on inadequate human or animal evidence
NTP	This product is not listed as carcinogenic.
OSHA	This product is not listed as carcinogenic.

SECTION 12.0	ECOLOGICAL INFORMATION
---------------------	-------------------------------

Ecotoxicity	No mortality or other adverse reactions to the exposures during or after 96 hours.
Persistence and degradability	Direct photolysis will not contribute to a measurable degradative removal of chemical components in this category from the environment.
Bioaccumulative potential	Inherently biodegradable
Mobility in soil	No data available
Other adverse effects	No data available
Aquatic Release	Advise authorities if product has entered or may enter watercourses or sewer drains.

SECTION 13.0	DISPOSAL CONSIDERATIONS
---------------------	--------------------------------

Waste residues description	This product is not a characteristic hazardous waste under RCRA. No EPA waste numbers are applicable for this product's components.
-----------------------------------	---



SAFETY DATA SHEET

Safe handling Information See Section 7 (Handling and Storage)
Waste disposal Method Observe Federal, State and Local regulations covering chemical waste spills.

SECTION 14.0	TRANSPORT INFORMATION
---------------------	------------------------------

DOT Not regulated as a hazardous material for transportation by USA DOT.

SECTION 15.0	REGULATORY INFORMATION
---------------------	-------------------------------

US Federal Regulations

TSCA (Toxic Substance Control Act) REGISTRY Listed

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act) This product is not a hazardous substance under CERCLA.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

302/304

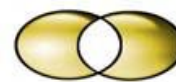
This product is not listed as an extremely hazardous substance in 40 CFR Part 355, and is not known to contain an extremely hazardous substance in a concentration greater than one percent by weight.

311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Pressure Release Hazard	No
Reactivity Hazard	No

313

This product is not known to contain any components in concentrations above OSHA *de minimus* levels that are listed as toxic in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA.



SAFETY DATA SHEET

Canadian Regulations

WHMIS

Listed

US State Regulations

Maine

Distillate, Petroleum, Hydrotreated Light Naphthenic appears on the state hazardous substances list.

SECTION 16.0	OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION
---------------------	--

Hazardous Material Information System (U.S.A.) (HMIS)

<u>HMIS Hazard Rating</u>		
4 – Severe	Health	1
3 – Serious	Flammability	1
2 – Moderate	Reactivity	0
1 - Slight		
0 - Minimal		

Abbreviations

ACGIH = American Conference of Governmental Industrial Hygienists; AICS = Australia Inventory of Chemical Substances; ATE = Acute Toxicity Estimate, BCF = Bioconcentration Factor; CAS = Chemical Abstracts Service; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; COC = Cleveland Open Cup; DSL = Domestic Substances List (Canada); ELINCS = European List of Notified Chemical Substances, EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS = Japan Existing and New Chemical Substances; EPA = Environmental Protection Agency; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IBC = Intermediate Bulk Container; IDLH = Immediately Dangerous to Life and Health; IMDG = International Maritime Dangerous Goods; INSHT = National Institute for Health and Safety at Work; NDSL = Non-Domestic Substances List (Canada); IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PAH = Polycyclic Aromatic Hydrocarbon; PEL = Permissible Exposure Limit (OSHA); PICCS = Philippines Inventory of Chemicals and Chemical Substances, SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); SCBA = Self-Contained Breathing Apparatus; TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); TSCA = Toxic



SAFETY DATA SHEET

Substances Control Act Section 8(b); Inventory UEL = Upper Explosive Limit; UN = United Nations ; HMIS = Worker Hazardous Materials Information System (Canada)

Disclaimer

The information presented herein has been compiled from sources considered to be dependable and is accurate as of the date of preparation of this Safety Data Sheet. However, Seller does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license. All materials may present unknown hazards and should be used with caution. In addition, no responsibility can be assumed by the Seller for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the material. Seller assumes no responsibility for injury to Buyer or to third persons or any damage to any property. Buyer assumes all such risks.