

# Section 1 - PRODUCT AND COMPANY IDENTIFICATION

#### Material Name

ECOPOWER AW HYDRAULIC OILS

ISO 22, 32, 46, 68, 100, 150, 220

Product Code Prefix 31

# Synonyms

Petroleum oil, Lube oil, Petroleum hydrocarbon, Lubricant

#### **Product Use Recommended Use**

For lubricating industrial gears. If this product is used in combination with other products, refer to the Safety Data Sheets for those products.

#### **Restrictions on Use**

None known.

#### FOR PRODUCT MANUFACTURED IN THE U.S.A.:

#### MANUFACTURER

Safety-Kleen Systems, Inc. 42 Longwater Drive Norwell, MA 02061-9149 U.S.A.

#### FOR PRODUCT MANUFACTURED IN CANADA:

#### MANUFACTURER

Safety-Kleen Canada, Inc. 25 Regan Road Brampton, Ontario, L7A 1B2 Canada

#### **SUPPLIER (in Canada)**

Safety-Kleen Canada, Inc. 25 Regan Road Brampton, Ontario, L7A 1B2 Canada

### SUPPLIER (in the U.S.A.)

Safety-Kleen Systems, Inc. 42 Longwater Drive Norwell, MA 02061-9149 U.S.A.

www.safety-kleen.com Phone: 1-800-669-5740 Emergency Phone #: 1-800-468-1760

#### **Issue Date**

October 17, 2019 Supersedes Issue Date May 1, 2017 Original Issue Date November 29, 2011

# Section 2 - HAZARDS IDENTIFICATION

# Classification in accordance with Schedule 1 of Canada's Hazardous Products Regulations (HPR) (SOR/2015-17) and paragraph (d) of 29 CFR 1910.1200 in the United States

None needed according to classification criteria

#### **GHS Label Elements**

#### Symbol(s)

None needed according to classification criteria

#### **Signal Word**

None needed according to classification criteria

#### Hazard Statement(s)

None needed according to classification criteria.

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#### **Precautionary Statement(s)**

#### Prevention

None needed according to classification criteria.

#### Response

None needed according to classification criteria.

# Storage

None needed according to classification criteria.

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Other hazards

Repeated exposure may cause skin dryness or cracking. When aerosolizing, misting, or heating these products, high concentrations of generated vapor or mist may irritate the respiratory tract (nose, throat, and lungs).

# Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

	Component Name	Percent						
64742-58-1	54742-58-1 Lubricating oils, petroleum, hydrotreated spent							
64742-62-7	54742-62-7 Residual oils (petroleum), solvent dewaxed							
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	0.255-0.55						
128-39-2	2,6-Di-tert-butylphenol	0.085-0.20						
72623-85-9	Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based, high-viscosity	0.085-0.20						

### Section 4 - FIRST AID MEASURES

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention if needed.

### Skin

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if needed.

# Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy

to do. Continue rinsing. Get medical attention if needed.

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. **Most Important Symptoms/Effects** 

#### Acute

No information on significant adverse effect.

#### Delayed

Repeated exposure may cause skin dryness or cracking.

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

Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident.

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# Section 5 - FIRE FIGHTING MEASURES

#### **Extinguishing Media**

#### Suitable Extinguishing Media

Carbon dioxide, regular foam, dry chemical, water spray, or water fog. Water or foam may cause frothing.

# Unsuitable Extinguishing Media

Do not use high pressure water streams.

Special Hazards Arising from the Chemical

Negligible fire hazard.

#### Hazardous Combustion Products

Burning may produce phosphorus oxides, aldehydes, hydrogen sulfide, alkyl mercaptans, sulfides, nitrogen oxides, sulfur oxides, carbon monoxide, unidentified organic compounds.

#### **Fire Fighting Measures**

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Keep unnecessary people away, isolate hazard area and deny entry.

#### **Special Protective Equipment and Precautions for Firefighters**

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

# Section 6 - ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

### Methods and Materials for Containment and Cleaning Up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

### Section 7 - HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. These products have a low vapor pressure and are not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating these products, do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with: Skin, eyes, clothing, shoes. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product.

### Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria.

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous.

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#### **Incompatible Materials**

Acids, oxidizing agents, reducing agents.

# Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Component Exposure Limits**

Canada, ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

#### ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

#### **Engineering Controls**

Provide general ventilation. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls.

#### Individual Protection Measures, such as Personal Protective Equipment

#### **Eye/face protection**

Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

#### **Respiratory Protection**

A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

## **Glove Recommendations**

Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber or equivalent gloves is not recommended. When products are heated and skin contact is likely, wear heat-resistant gloves, boots, and other protective clothing. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

#### **Protective Materials**

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: Safety glasses, gloves, and lab coat or apron.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appea	rance	Liquid.	Physical State	Liquid
Odor		Petroleum odor.	Color	Amber, red, green, or blue
Odor 7	Threshold	Not available	рН	Not available
Meltin	g Point	Not available	<b>Boiling Point</b>	246 °C (475 °F Minimum )
Boiling	g Point Range	Not available	Freezing point	Not available
Evapor	ration Rate	Not available	Flammability (solid, gas)	Not available
Autoig Tempe	nition crature	Not available	Flash Point	165°C [Cleveland open cup](329 °F)

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Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	<0.1 mmHg @ 68°F °C (20° C )
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	0.89 (Approximate Water = 1)
Water Solubility	(Insoluble )	Partition coefficient: n- octanol/water	Not available
Viscosity	>20.5 mm2/s 40 °C (104 °F )	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	7.3 lb/gal (US Approximate )
<b>Physical Form</b>	liquid	Pour Point	Not available
Molecular Weight	Not available	<b>OSHA Flammability Class</b>	Not flammable
Volatile Organic Compounds (As Regulated)	Negligible; As pe	r 40 CFR 51.100(s)	

# Section 10 - STABILITY AND REACTIVITY

#### Reactivity

No reactivity hazard is expected. **Chemical Stability** Stable under normal temperatures and pressures. **Possibility of Hazardous Reactions** Will not polymerize. **Conditions to Avoid** 

Avoid sparks, flame, and other sources of ignition.

#### Incompatible Materials

Acids, oxidizing agents, reducing agents.

# Hazardous decomposition products

None under normal temperatures and pressures.

# Section 11 - TOXICOLOGICAL INFORMATION

# Information on Likely Routes of Exposure

# Inhalation

No information on significant adverse effects.

# **Skin Contact**

Prolonged or repeated exposure may cause skin dryness or cracking.

#### **Eye Contact**

No information on significant adverse effects.

### Ingestion

May be harmful if swallowed.

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#### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

#### Lubricating oils, petroleum, hydrotreated spent (64742-58-1)

Oral LD50 Rat >2000 mg/kg; Dermal LD50 Rabbit >4480 mg/kg

#### Residual oils (petroleum), solvent dewaxed (64742-62-7)

Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 2.18 mg/L 4 h

# 2,6-Di-tert-butylphenol (128-39-2)

Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >10 g/kg

#### Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based, high-viscosity (72623-85-9)

Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 2.18 mg/L 4 h Product Toxicity Data

#### Acute Toxicity Estimate

Oral > 2000 mg/kg

#### **Immediate Effects**

No information on significant adverse effects.

#### **Delayed Effects**

No information on significant adverse effects.

### **Irritation/Corrosivity Data**

May cause slight skin or respiratory irritation.

#### **Respiratory Sensitization**

No information for the product.

#### **Dermal Sensitization**

No information for the product.

#### **Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

#### Germ Cell Mutagenicity

No information available for the product.

#### **Tumorigenic Data**

No information available for the product.

#### **Reproductive Toxicity**

No information available for the product.

# Specific Target Organ Toxicity - Single Exposure

No information on significant adverse effects.

# Specific Target Organ Toxicity - Repeated Exposure

No information on significant adverse effects.

# Aspiration hazard

Not data available.

### Medical Conditions Aggravated by Exposure

Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

### Section 12 - ECOLOGICAL INFORMATION

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

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Residual oils (petroleum), solvent dewaxed	64742-62-7					
Fish:	LC50 96 h Oncorhynchus mykiss >5000 mg/L					
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L IUCLID					
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3					
Fish:	LC50 96 h Pimephales promelas 1 - 5 mg/L [static ]; LC50 96 h Pimephales promelas 10 - 35 mg/L [semi-static ]					
Invertebrate:	EC50 48 h Daphnia magna 1 - 1.5 mg/L IUCLID					
2,6-Di-tert-butylphenol	128-39-2					
Invertebrate:	EC50 48 h Daphnia magna 0.45 mg/L IUCLID					
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based, high-viscosity	72623-85-9					
Fish:	LC50 96 h Oncorhynchus mykiss >5000 mg/L					
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L IUCLID					

#### Persistence and Degradability

No information available for the product.

#### **Bioaccumulative Potential**

No information available for the product.

#### Mobility

No information available for the product.

# Section 13 - DISPOSAL CONSIDERATIONS

#### **Disposal Methods**

Dispose of contents/container in accordance with local/regional/national/international regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

This product, if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, it can be managed in accordance with the used oil exemption under 40 CFR Part 279. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product.

# Section 14 - TRANSPORT INFORMATION

US DOT Information: Not regulated for transport. IATA Information: Not regulated for transport. IMDG Information: Not regulated for transport. TDG Information: Not regulated for transport.

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### International Bulk Chemical Code

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

2,6-Di-tert-butylphenol	128-39-2		
IBC Code:	Category X		

# Section 15 - REGULATORY INFORMATION

#### **U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3		
I SARA 313:	1 % de minimis concentration (related to Zinc compounds)		

# SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

No hazard categories applicable.

#### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42- 3	Yes	No	No	Yes	Yes

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)** Not listed under California Proposition 65.

Component Analysis - Inventory

Lubricating oils, petroleum, hydrotreated spent (64742-58-1)

US	CA	AU	CN	N I	EU	JP - ENCS	JP - ISHL		JP - ISHL		KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Ye	es I	EIN	No	No		No		Yes	No
KR -	KR - REACH CCA		1	MX	NZ	PH	TH- TECI	TW	VN (Draft)			
No			Yes	Yes	Yes	No	Yes	Yes				

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kesiau	ial oils	(petro	leu	m),	, <b>so</b> l	ivent d	lewaxed (64	-/42-62-/)			
US	CA	AU	C	N	EI	J	JP - ENCS	JP - ISHL		KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Y	es	El	N	No	No		Yes	No
KR - REACH CCA MX NZ				РН	TH- TECI	TW	VN (Draft)				
No Yes Yes					Yes	Yes	Yes	Yes	Yes		
Phosp	horodit	thioic a	acio	<b>1</b> , O	),0	-di-C1	-14-alkyl es	sters, zinc s	alts (6	8649-42-3)	1
US CA AU CN				N			JP - ENCS	JP - ISHL		KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Y	es	El	N	No	No		Yes	No
KR -	R - REACH CCA MX NZ		РН	TH- TECI	TW	VN (Draft)					
No Yes Yes					Yes	Yes	No	Yes	Yes		
2,6-Di-	-tert-bı	ıtylph	eno	l (1	28-	39-2)					
US CA AU CN			EI	J	JP - ENCS	JP - ISHL		KR KECI - Annex 1	KR KECI - Annex 2		
Yes	DSL	Yes	Y	es	El	N	Yes	Yes		Yes	No
KR - REACH CCA		М	IX NZ		РН	TH- TECI	TW	VN (Draft)			
No				Y	es	Yes	Yes	Yes	Yes	Yes	
Lubric	cating o	oils, pe	tro	leu	m,	C20-5	0, hydrotre	ated neutra	l oil-b	ased, high-viscosity	(72623-85-9)
US CA AU CN EU			J	JP - ENCS	JP - ISHL		KR KECI - Annex 1	KR KECI - Annex 2			
Yes	DSL	Yes	Y	es	El	N	No	No		Yes	No
KR - REACH CCA MX NZ			NZ	РН	TH- TECI	TW	VN (Draft)				
No No Ye				Yes	Yes	No	Yes	Yes			

# Residual oils (petroleum), solvent dewaxed (64742-62-7)

# Section 16 - OTHER INFORMATION

**NFPA Ratings** 

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

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#### **Summary of Changes**

Update to composition and resulting changes. Update to manufacturer address.

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA -California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CFR -Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD -Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC -European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F -Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH -Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP -Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts<sup>TM</sup> -ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL -Maximum Exposure Limits; MX – Mexico; NDSL – Non-Domestic Substance List (Canada); NFPA -National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR -New Jersev Trade Secret Registry: NTP - National Toxicology Program: NZ - New Zealand: OSHA -Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA -United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS -Workplace Hazardous Materials Information System (Canada).

# **Other Information**

#### Disclaimer:

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers. The data contained on this sheet apply to the product as supplied to the user.