



**PROTECT HDDEO CK-4 10W-30, 15W-40 SN**

Safety Data Sheet

SDS ID: 820403

**Section 1 - PRODUCT AND COMPANY IDENTIFICATION**

**Material Name**

PROTECT CK-4 10W-30, 15W-40 SN

**Product Code**

22D103X, 22D154X, Prefix 22

**Synonyms**

HDDEO; Heavy Duty Diesel Engine Oil; Heavy Duty Diesel Motor Oil

**Product Use**

Lubricating oils. If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

**Restrictions on Use**

None known.

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.

**SUPPLIER (in Canada)**

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

**FOR PRODUCT MANUFACTURED IN CANADA:**

**MANUFACTURER**

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

**SUPPLIER (in the US)**

Safety-Kleen Systems, Inc.  
4 Longwater Drive  
Norwell, MA 02061-9149

[www.safety-kleen.com](http://www.safety-kleen.com)

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**Issue Date**

May 10, 2019

**Supersedes Issue Date**

New Issue SDS

**Original Issue Date**

May 10, 2019

**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)**

# Safety Data Sheet

Material Name: PROTECT HDDEO CK-4 10W-30, 15W-40 SN

SDS ID: 820403

None needed according to classification criteria.

## 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 in accordance with all applicable federal, state and local regulations.

### Other Hazards

Repeated exposure may cause skin dryness or cracking.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
64742-58-1	Lubricating oils, petroleum, hydrotreated spent	75-85
64742-65-0	Distillates, petroleum, solvent-dewaxed heavy paraffinic	1.5-10
113706-15-3	Phosphorodithioic acid, mixed O,O-bis(sec-butyl and isooctyl) esters, zinc salts	1-5
64741-89-5	Distillates, petroleum, solvent-refined light paraffinic	1-5
64742-54-7	Distillates, petroleum, hydrotreated heavy paraffinic	1-7
64742-70-7	Paraffin oils, petroleum, catalytic dewaxed heavy	0.1-1
85940-28-9	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and isobutyl and isopropyl) esters, zinc salts	0-2
9010-79-1	Ethylene-propylene copolymer	0-0.75

## Section 4 - FIRST AID MEASURES

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

### Most Important Symptoms/Effects

#### Acute

No information on significant adverse effects.

## Safety Data Sheet

Material Name: PROTECT HDDEO CK-4 10W-30, 15W-40 SN

SDS ID: 820403

### Delayed

Repeated exposure may cause skin dryness or cracking.

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

Treat symptomatically and supportively.

## Section 5 - FIRE FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide, regular foam, dry chemical, water spray, 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. Avoid friction, static electricity and sparks.

### Hazardous Combustion Products

Decomposition and combustion materials may be toxic. Burning may produce sulfur oxides, aldehydes, ketones, carbon monoxide and unidentified organic compounds.

### Fire Fighting Measures

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

### Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

## Section 6 - ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

### 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, spark proof tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal. There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see SECTION 15: REGULATORY INFORMATION.

## Section 7 - HANDLING AND STORAGE

### Precautions for Safe Handling

Keep away from heat, sparks and naked flames. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. This product has a low vapor pressure and is not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating this product, do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes Skin clothing shoes.

### Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria.

# Safety Data Sheet

Material Name: PROTECT HDDEO CK-4 10W-30, 15W-40 SN

SDS ID: 820403

Additional information: Storage. 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.

## Incompatible Materials

Strong oxidizing materials

## 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 needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

### 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 vapors or mists. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

#### Respiratory Protection

No respiratory protection is normally required. Protection provided by air purifying respirators is limited. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

#### Glove Recommendations

Where skin contact is likely, wear neoprene, nitrile, or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended.

#### 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

<b>Appearance</b>	Liquid.	<b>Physical State</b>	Liquid
<b>Odor</b>	Petroleum	<b>Color</b>	Amber.
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	129.5 °C (265 °F Minimum )
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	165 °C [Cleveland Open Cup.] (329 °F Minimum )

# Safety Data Sheet

Material Name: PROTECT HDDEO CK-4 10W-30, 15W-40 SN

SDS ID: 820403

<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	<0.1 mmHg @ 68°F °C (20 °C )
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	0.87 (Approximate Water = 1 )
<b>Water Solubility</b>	(Insoluble )	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	>100 SUS	<b>Solubility (Other)</b>	Not available
<b>Density</b>	7.3 lb/gal (US Approximate )	<b>Physical Form</b>	Liquid.
<b>Pour Point</b>	-3 °C (27 °F Maximum )	<b>Molecular Weight</b>	Not available

## 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 heat, flames, sparks and other sources of ignition

### Incompatible Materials

Avoid oxidizing 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

No information on significant adverse effects.

#### Eye Contact

No information on significant adverse effects.

#### Ingestion

No information on significant adverse effects.

### 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

**Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)**

# Safety Data Sheet

Material Name: **PROPROTECT HDDEO CK-4 10W-30, 15W-40 SN**

SDS ID: 820403

Oral LD50 Rat >15000 mg/kg (no deaths occurred); Dermal LD50 Rabbit >5000 mg/kg (no deaths occurred )

Inhalation LC50 Rat >2400 mg/m<sup>3</sup> 4 h (no deaths occurred )

**Distillates, petroleum, solvent-refined light paraffinic (64741-89-5)**

Oral LD50 Rat >15 g/kg; Dermal LD50 Rabbit >5 g/kg; Inhalation LC50 Rat 2.18 mg/L 4 h

**Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)**

Oral LD50 Rat >15 g/kg (no deaths occurred); Dermal LD50 Rabbit >5000 mg/kg (no deaths occurred)

**Paraffin oils, petroleum, catalytic dewaxed heavy (64742-70-7)**

Oral LD50 Rat >15000 mg/kg; Dermal LD50 Rabbit >5000 mg/kg

**Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and isobutyl and isopropyl) esters, zinc salts (85940-28-9)**

Oral LD50 Rat 3000 mg/kg

## Product Toxicity Data

### Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Oral	> 2000 mg/kg

### Immediate Effects

No information on significant adverse effects.

### Delayed Effects

Repeated exposure may cause skin dryness or cracking.

### Irritation/Corrosivity Data

May cause slight skin and respiratory irritation.

### Respiratory Sensitization

No information available for the product.

### Dermal Sensitization

No information available 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 data available

### 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

No information available for the product.

### 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

Toxic to aquatic life.

## Safety Data Sheet

**Material Name:** PROTECT HDDEO CK-4 10W-30, 15W-40 SN

**SDS ID:** 820403

### Component Analysis - Aquatic Toxicity

<b>Lubricating oils, petroleum, hydrotreated spent</b>	<b>64742-58-1</b>
Fish:	LC50 96 h Brachydanio rerio 79.6 mg/L [semi-static ]; LC50 96 h Pimephales promelas 3.2 mg/L [semi-static ]
<b>Distillates, petroleum, solvent-dewaxed heavy paraffinic</b>	<b>64742-65-0</b>
Fish:	LC50 96 h Oncorhynchus mykiss >5000 mg/L
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L IUCLID
<b>Distillates, petroleum, solvent-refined light paraffinic</b>	<b>64741-89-5</b>
Fish:	LC50 96 h Oncorhynchus mykiss >5000 mg/L
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L IUCLID
<b>Distillates, petroleum, hydrotreated heavy paraffinic</b>	<b>64742-54-7</b>
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.

#### Other Toxicity

No additional information is available.

### Section 13 - DISPOSAL CONSIDERATIONS

#### Disposal Methods

Dispose in accordance with federal, state, provincial, and local 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.

#### Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components

### 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.

# Safety Data Sheet

**Material Name: PROTECT HDDEO CK-4 10W-30, 15W-40 SN**

**SDS ID: 820403**

**International Bulk Chemical Code**

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

<b>Section 15 - REGULATORY INFORMATION</b>
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**Canada Regulations**

**CEPA - Priority Substances List**

None of this product's components are on the list.

**Ozone Depleting Substances**

None of this product's components are on the list.

**Council of Ministers of the Environment - Soil Quality Guidelines**

None of this product's components are on the list.

**Council of Ministers of the Environment - Water Quality Guidelines**

None of this product's components are on the list.

**U.S. Federal Regulations**

None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

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

No hazard categories applicable.

**U.S. State Regulations**

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

**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	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	No	No	Yes	No
KR - REACH CCA			MX	NZ	PH	TH-TECI	TW	VN (Draft)
No			Yes	Yes	Yes	No	Yes	Yes

**Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)**

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



## Safety Data Sheet

**Material Name: PROTECT HDDEO CK-4 10W-30, 15W-40 SN**

**SDS ID: 820403**

**Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)**

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

**Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and isobutyl and isopropyl) esters, zinc salts (85940-28-9)**

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

**Ethylene-propylene copolymer (9010-79-1)**

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

### Section 16 - OTHER INFORMATION

**NFPA Ratings**

Health: 1 Fire: 1 Reactivity: 0

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

**Summary of Changes**

2021-11: Update to Section 1.

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; 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; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EPA - Environmental Protection Agency; F - Fahrenheit; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NDSL - Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; RCRA - Resource Conservation and Recovery Act; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of

## Safety Data Sheet

**Material Name: PROPROTECT HDDEO CK-4 10W-30, 15W-40 SN**

**SDS ID: 820403**

Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; 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 Systems, Inc. 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.