



Safety Data Sheet


Prepared according to GHS

1. Identification

Product Name	Heavy Duty Diesel Engine Oil Series (CK-4)
Product Code(s)	7210, 7215
Recommended Use	Diesel Engine Oil
Company	American Refining Group, Inc. 77 North Kendall Avenue Bradford, PA 16701 www.amref.com msds@amref.com
Emergency Telephone Number(s)	Chemtrec 1-800-424-9300 (24 HRS) ARG: 814-368-1297 (24 HRS)
Revision Date	4/1/2015

2. Hazards Identification

3.

GHS Classification	Skin Sensitization 1B
Signal Word	WARNING!
Hazard Statements	May cause an allergic skin reaction
Other Hazard Information	Not applicable
GHS Pictogram	

Precautionary Statements	Avoid breathing mist or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. If on skin: wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Dispose of contents/container in accordance with local/regional/national/international regulations.
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4. Composition / Information on Ingredients

CAS No.	Component	Percent
Mixture	Highly refined mineral oil (C15-C50)	10-15
Trade Secret	01154100-5284P	< 2

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68649-42-3	Zinc alkyl dithiophosphate	< 1
74499-35-7 & 13272-19-3	Branched alkylphenol and Calcium branched alkylphenol	0.2

5. First Aid Measures

Eyes Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation Move exposed person to fresh air. Get medical attention if irritation develops.

Ingestion First aid is normally not required. Get medical attention if discomfort develops.

Note to Physicians No specific treatment. Treat symptomatically. Contact poison treatment specialist if large quantities have been ingested or inhaled.

6. Fire Fighting Measures

Suitable Extinguishing Media
Use dry chemical, CO₂, water spray (FOG) or foam

Unsuitable Extinguishing Media
Avoid solid water stream as it may scatter and spread fire.

Specific Hazards Arising from Chemical
Elevated temperatures can lead to the formation of irritating vapors. Decomposing products may include the following materials: Carbon dioxide and Carbon monoxide.

Protective Equipment and Precautions for Firefighters
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

7. Accidental Release Measures

Personal Precautions
Put on appropriate personal protective equipment.

Environmental Precautions
Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods for Containment
Stop leak if without risk.

Methods for Cleanup
Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled container

8. Handling and Storage

Handling Procedures

8. Handling and Storage

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist.

Shipping and Storing Procedures

Keep container tightly closed in a dry place. Keep away from heat. Protect from light. Keep in properly labeled containers. Keep out of the reach of children.

Incompatibilities:

Oxidizing Agents

9. Exposure Controls / Personal Protection

Component Exposure Limits*

When mists/aerosols can occur the following are recommended: 5 mg/m³ - ACGIH TLV (inhalable fraction). *Product has 0 kPa pressure at 68°F and is not expected to present any inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product. Oil mist, if generated, is considered hazardous according to the OSHA Hazard Communication Standard.

Engineering Controls

Material should be handled in enclosed vessels and equipment only if aerosolized and/or misted. Use only in adequate ventilation if this occurs. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Eye/Face Protection

Safety glasses. If potential for splash or mist exists, wear chemical goggles or face shield.

Skin Protection

Normal work gloves are appropriate

Respiratory Protection

No special requirements under ordinary conditions of use and with adequate ventilation.

General Hygiene

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.

10. Physical and Chemical Properties

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Please see the Product Specification Sheet for further information.

Appearance	Opaque	Flammability	Not available
Physical State	Liquid	Upper/Lower Flammability Limits	Not available
Odor	Mild	Vapor Pressure (kPa at 20°C)	0
Odor Threshold	Not available	Vapor Density	Not available
pH	Not available	Relative Density (lbs/gal)	7.2-7.3
Melting/Freezing Point (°F)	Not available	Water Soluble	No
Initial Boiling Point (°F)	Not available	Partition Coefficient: n-octanol/water	Not available
Boiling Range (°F)	Not available	Auto-ignition Temperature (°F)	Not available

10. Physical and Chemical Properties			
Flash Point (°F)	440-450	Decomposition Temperature (°F)	Not available
Evaporation Rate	Not available	Viscosity (40°C mm²/s)	82-110

11. Chemical Stability & Reactivity Information
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Reactivity	Polymerization will not occur
Chemical Stability	Stable under normal conditions
Hazardous Reactions	None, under normal processing.
Conditions to Avoid	High temperatures
Incompatibility	Strong acids and oxidizing materials
Hazardous Decomposition Products	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

12. Toxicological Information

Acute Exposure	
Respiratory Irritation	Not expected to pose respiratory irritation. An inhalation hazard may only arise if product is aerosolized or if heated up. If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and upper respiratory tract. Based on data from similar materials.
Eye Irritation	Not expected to cause irritation under normal use.
Skin Irritation	Not expected to cause irritation under normal use.
Sensitization	May cause skin sensitization. Based on data from components or similar materials.
Aspiration Hazards	Not expected to pose an aspiration hazard if swallowed.
Chronic Exposure	
Target Organ Effects	No data available to indicate product or components at greater than 1% are chronic health hazards.
Carcinogenicity	No data available to indicate product or any components present at greater than .1% are carcinogenic.
Mutagenicity	No data available to indicate product or any components present at greater than .1% are mutagenic or genotoxic.
Reproductive Toxicity	No data available to indicate either product or components present at greater than .1% that may cause reproductive toxicity.
Teratogenicity	No data available to indicate product or any components contained at greater than .1% may cause birth defects.

Component Analysis – LD50 / LC50

Inhalation LC50 Rat	>20 mg/L 4h
Oral LD50 Rat	>5000 mg/kg
Dermal LD50 Rabbit	>2000 mg/kg

13. Ecological Information

Component Analysis- Ecotoxicity – Aquatic Life

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Pimephales promelas	Not available mg/L

Persistence & Degradability	Not determined
Bioaccumulation Potential	Not determined
Soil Mobility	Not determined
Other Adverse Effects	Not determined

14. Disposal Considerations

Disposal Instructions

The generation of waste should be avoided or minimized wherever possible. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

15. Transportation Information

Emergency Response Guide No.		171		<i>North American Emergency Response Guide Book</i>	
	UN Number	Shipping Name (technical name)	Hazard Class	Packing Group	
U.S. DOT Bulk		Not Regulated			
U.S. DOT Non-Bulk		Not Regulated			
IATA		Not Regulated			
IMDG		Not Regulated			

16. Regulatory Information

SARA Extremely Hazardous Substances (Sections 302 & 304)

This product does not contain greater than 1% of any “extremely hazardous substances” listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA Section 313

This product does not contain greater than 1.0% of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SARA Section 311 & 312 Classifications **Physical Hazard** No

16. Regulatory Information

Health Hazard Yes
Skin Sensitizer

CERCLA

This product does not contain any “hazardous substances” listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

California Prop 65

This product is not routinely tested to determine chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components.

Global Chemical Inventories

Inventory	
US TSCA	Listed
EU	Listed
Japan	Not available
Australia	Listed
New Zealand	Not available
Canada	Listed
Switzerland	Not available
Korea	Listed
Philippines	Listed
China	Listed
Taiwan	Not available

17. Other Information

US NFPA Ratings

Health	Fire	Reactivity
0	1	0

HMIS Ratings

Health	Fire	Physical Hazards
0	1	0

Revision Date

23 May 2017

Revision Reason

New SDS

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS