



Material Safety Data Sheet

Material Name: AMERICA'S CHOICE DIESEL MOTOR OIL
10W, MIL-PRF-2104G, 2104H

ID: 820126

*** Section 1 - Chemical Product and Company Identification ***

Product Name: AMERICA'S CHOICE DIESEL MOTOR OIL
10W, MIL-PRF-2104G, 2104H

Product Code: Prefix 22

Product Use: For lubricating diesel engines. If these products are used in combination with other products, refer to the Material Safety Data Sheet for those products.

Synonyms: Petroleum oil; Lube oil; Petroleum hydrocarbon; Lubricant.

Safety-Kleen Systems, Inc.

Phone: 1-800-669-5740

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Emergency # 1-800-468-1760
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PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

*** Section 2 - Hazardous Identification ***

EMERGENCY OVERVIEW

Appearance

Amber liquid, petroleum odor.

Signal Word

CAUTION!

Health Hazards

May be harmful if swallowed.

May irritate eyes and skin.

POTENTIAL HEALTH EFFECTS

Inhalation (Breathing)

These products are not likely to present an inhalation hazard at normal temperatures and pressures. However, when aerosolizing, misting, or heating these products, high concentrations of generated vapor or mist may irritate the respiratory tract (nose, throat, and lungs).

Eyes

May cause irritation.

Skin

May cause irritation. Not likely to be absorbed through the skin in harmful amounts.

Ingestion (Swallowing)

May cause throat irritation, nausea, vomiting, and diarrhea. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

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.

Chronic

Prolonged or repeated inhalation of oil mist may cause oil pneumonia, lung tissue inflammation, and/or fibrous tissue formation. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

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Cancer Information

No known carcinogenicity. For more information, see SECTION 11: CARCINOGENICITY.

Also see SECTION 15: CALIFORNIA.

Environmental Hazards

Not available. Also see SECTION 12: ECOLOGICAL INFORMATION.

*** Section 3 - Composition / Information on Ingredients ***

CAS	Component	Percent
64742-58-1	Lubricating oils, petroleum, hydrotreated spent	11-77*
72623-83-7	Lubricating oils (petroleum), C>25, hydrotreated bright stock	0-66*
64742-62-7	Residual oils (petroleum), solvent dewaxed	0-66*
64742-57-0	Residual Oils (petroleum), hydrotreated	0-66*
64742-01-4	Residual oils (petroleum), solvent refined	0-66*
64741-88-4	Petroleum distillates, solvent-refined heavy paraffinic	0-66*
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	0.5-2*
ACC # 157143	Long chain alkyl thio carbamide metal complex	0.5-2
**	Mixture	0-8*

Component Related Regulatory Information

*Even though the concentration range does not fall under the ranges prescribed by WHMIS, this is the actual Range which varies with each batch of the product.

**Mixture of the following CAS #s: 8042-47-5, 64742-46-7, 64742-47-8, 63742-52-5, 64742-54-7, 72621-84-8, 72623-85-9, 72623-86-0, 72623-87-1, 178603-64-0, 178603-65-1, 178603-66-2, 445411-73-4.

*** Section 4 - First Aid Measures ***

Inhalation (Breathing)

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

Eyes

If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

Skin

Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists. If product is injected under pressure into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, a physician should immediately evaluate the individual as a medical emergency.

Ingestion (Swallowing)

Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

Notes to Physicians

Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

*** Section 5 - Fire Fighting Measures ***

Hazardous Combustion Products

Decomposition and combustion materials may be toxic. Burning may produce aldehydes, hydrogen sulfide, alkyl mercaptans, sulfides, carbon monoxide, and oxides of sulfur, calcium and zinc and other unidentified organic compounds.

Conditions of Flammability

Sparks or flame. Product may burn, but does not ignite readily.

Extinguishing Media

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

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Protective Equipment For Firefighting

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

Fire Fighting Equipment/Instructions

Keep storage containers cool with water spray.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

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

Fire and Explosion Hazards

Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Products are not sensitive to mechanical impact or static discharge.

*** Section 6 - Accidental Release Measures ***

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 ***

Handling Procedures

Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. 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 eyes, skin, clothing, and shoes.

Shipping and Storing

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.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

Component Exposure Limits

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

ACGIH: 5 mg/m3 TWA (excluding metal working fluids, highly & severely refined, inhalable fraction, related to Oil mist, mineral)

OSHA Final: 5 mg/m3 TWA (related to Oil mist, mineral)

OSHA Vacated: 5 mg/m3 TWA (related to Oil mist, mineral)

NIOSH: 5 mg/m3 TWA (related to Oil mist, mineral)
10 mg/m3 STEL (related to Oil mist, mineral)

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

ACGIH: 5 mg/m3 TWA (excluding metal working fluids, highly & severely refined, inhalable fraction, related to Oil mist, mineral)

OSHA Final: 5 mg/m3 TWA (related to Oil mist, mineral)

OSHA Vacated: 5 mg/m3 TWA (related to Oil mist, mineral)

NIOSH: 5 mg/m3 TWA (related to Oil mist, mineral)
10 mg/m3 STEL (related to Oil mist, mineral)

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Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4)

ACGIH: 5 mg/m3 TWA (excluding metal working fluids, highly & severely refined, inhalable fraction, related to Oil mist, mineral)
OSHA Final: 5 mg/m3 TWA (related to Oil mist, mineral)
OSHA Vacated: 5 mg/m3 TWA (related to Oil mist, mineral)
NIOSH: 5 mg/m3 TWA (related to Oil mist, mineral)
10 mg/m3 STEL (related to Oil mist, mineral)

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.

Personal Protective Equipment: Respiratory

No respiratory protection is normally required. Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. 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. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

Personal Protective Equipment: Eyes/Face

Where eye contact is likely, wear safety glasses; contact lens use is not recommended.

Personal Protective Equipment: Skin

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.

Personal Protective Equipment: Personal Hygiene

Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse.

Discard leather articles, such as shoes, saturated with these products.

Other Personal Protective Equipment

Where spills and splashes are likely, facilities storing or using these products should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

*** Section 9 - Physical & Chemical Properties ***

Appearance/Odor : Amber liquid, petroleum odor.

Physical State: Liquid

Boiling Point: 475°F (246°C) (minimum)

Solubility (H2O): Insoluble

Density: 7.3 LB/US gal (880 g/l)
(approximately)

Evaporation Rate: Not available

Odor Threshold: Not available

LFL: Not available

UFL: Not available

Vapor Pressure: Less than 0.1 mm Hg at 68°F
(20°C)

Flammability Class: Not applicable

Odor: Petroleum

pH: Not applicable

Melting Point: Not available

Specific Gravity: 0.88 (water = 1)
(approximately)

Octanol/H2O Coeff.: Not available

Molecular Weight: Not applicable

Auto Ignition: Not available

Flash Point: 392°F (200°C) (minimum)
Cleveland Open Cup

Vapor Density: Not available

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*** Section 10 - Chemical Stability & Reactivity Information ***

Stability

Stable under normal temperatures and pressures.

Incompatibility

Avoid oxidizing agents, acids and reactive halogens.

Reactivity

Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

Hazardous Decomposition Products

None under normal temperatures and pressures. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS**.

Conditions To Avoid

Avoid sparks or flame.

*** Section 11 - Toxicological Information ***

Component Analysis - LD50/LC50

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

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

Residual oils (petroleum), solvent refined (64742-01-4)

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

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

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

Lubricating oils (petroleum), C>25, hydrotreated bright stock (72623-83-7)

Oral LD50 Rat >5000 mg/kg

Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4)

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

Acute Effects

May irritate the respiratory tract (nose, throat, and lungs), eyes, and skin. May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and diarrhea. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

Carcinogenicity

Component Carcinogenicity

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

ACGIH: A4 - Not Classifiable as a Human Carcinogen (highly & severely refined); A2 - Suspected Human Carcinogen (poorly & mildly refined, related to Oil mist, mineral)

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

ACGIH: A4 - Not Classifiable as a Human Carcinogen (highly & severely refined); A2 - Suspected Human Carcinogen (poorly & mildly refined, related to Oil mist, mineral)

Lubricating oils (petroleum), C>25, hydrotreated bright stock (72623-83-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen (highly & severely refined); A2 - Suspected Human Carcinogen (poorly & mildly refined, related to Oil mist, mineral)

Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4)

ACGIH: A4 - Not Classifiable as a Human Carcinogen (highly & severely refined); A2 - Suspected Human Carcinogen (poorly & mildly refined, related to Oil mist, mineral)

Sensitization

Based on best current information, there is no known human sensitization associated with these products.

Mutagenicity

Experimental evidence suggests that these products do not cause mutagenesis.

Reproductive Toxicity

Based on best current information, there is no known reproductive toxicity associated with these products.

Teratogenicity

Based on best current information, there is no known teratogenicity associated with these products.

Toxicologically Synergistic Products

Based on best current information, there are no known toxicologically synergistic products associated with these products.

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*** Section 12 - Ecological Information ***

Ecotoxicity

Not available.

Component Analysis - Ecotoxicity - Aquatic Toxicity

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

Duration/Test/Species	Concentration/Conditions/Notes
96 Hr LC50 Brachydanio rerio	79.6 mg/L [semi-static]
96 Hr LC50 Pimephales promelas	3.2 mg/L [semi-static]

Residual oils (petroleum), solvent refined (64742-01-4)

Duration/Test/Species	Concentration/Conditions/Notes
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L

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

Duration/Test/Species	Concentration/Conditions/Notes
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L

Lubricating oils (petroleum), C>25, hydrotreated bright stock (72623-83-7)

Duration/Test/Species	Concentration/Conditions/Notes
96 Hr LC50 Lepomis macrochirus	>10000 mg/L

Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4)

Duration/Test/Species	Concentration/Conditions/Notes
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

Duration/Test/Species	Concentration/Conditions/Notes
96 Hr LC50 Pimephales promelas	1.0-5.0 mg/L [static]
96 Hr LC50 Pimephales promelas	10.0-35.0 mg/L [semi-static]

Persistence/Degradability

No information available for the product.

Mobility in Environmental Media

No information available for the product.

Other Adverse Effects

No additional information available.

*** Section 13 - Disposal Considerations ***

Disposal Instructions

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.

US EPA Waste Number & Descriptions

These products, if discarded, are not expected to be a characteristic or listed hazardous waste. If recycled as used oil in the USA, they 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 these products.

*** Section 14 - Transportation Information ***

Emergency Response Guide Number

Not applicable. Reference *North American Emergency Response Guidebook*

DOT Shipping Name: Not regulated as a hazardous material.

TDG Shipping Name: Not regulated as a dangerous good.

IATA Information:

No Classification Assigned.

IMDG Information:

No Classification Assigned.

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*** Section 15 - Regulatory Information ***

Volatile Organic Compounds (As Regulated)

Negligible as per U.S. EPA 40 CFR 51.100(s)

SARA Sections 311/312

These products pose the following health hazard(s) as defined in 40 CFR Part 370 and are subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate (Acute) Health Hazard

Delayed (Chronic) Health Hazard

SARA 302/304

Component Analysis

This product does not contain 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

These products contain "toxic" chemical(s) subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Component Analysis

This product does contain a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

1.0 % de minimis concentration (Chemical
Category N982, related to Zinc compounds)

CERCLA

Component Analysis

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

TSCA

All the components of these products are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

Component Analysis

Component	CAS #	TSCA
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	Yes
Residual oils (petroleum), solvent refined	64742-01-4	Yes
Residual oils (petroleum), solvent dewaxed	64742-62-7	Yes
Lubricating oils (petroleum), C>25, hydrotreated bright stock	72623-83-7	Yes
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	Yes
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	Yes

California

This product does not contain detectable amounts of any chemical known to the State of California to cause cancer.

This product does not contain detectable amounts of any chemical known to the State of California to cause birth defects or other reproductive harm.

Component Analysis - State

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

Component	CAS	CA	MA	MN	NJ	PA	RI
Lubricating oils, petroleum, hydrotreated spent (related to: Oil mist, mineral)	64742-58-1	Yes 1	Yes 1	Yes 1	Yes 1	Yes 1	Yes 1
Residual oils (petroleum), solvent dewaxed (related to: Oil mist, mineral)	64742-62-7	Yes 1	Yes 1	Yes 1	Yes 1	Yes 1	Yes 1

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Lubricating oils (petroleum), C>25, hydrotreated bright stock ('related to: Oil mist, mineral)	72623-83-7	Yes 1	Yes 1	Yes 1	Yes 1	Yes 1	Yes 1
Petroleum distillates, solvent-refined heavy paraffinic ('related to: Oil mist, mineral)	64741-88-4	Yes 1	Yes 1	Yes 1	Yes 1	Yes 1	Yes 1
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ('related to: Zinc compounds)	68649-42-3	Yes 1	No	No	Yes 1	Yes 1	No

Canadian Regulations

These products have been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

Component Analysis

Component	CAS #	CAN
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	DSL
Residual oils (petroleum), solvent refined	64742-01-4	DSL
Residual oils (petroleum), solvent dewaxed	64742-62-7	DSL
Lubricating oils (petroleum), C>25, hydrotreated bright stock	72623-83-7	DSL
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	DSL
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	DSL

Canadian WHMIS Information

Class D2B - Irritating to eyes and skin.

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

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

1 % (related to Oil mist, mineral)

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

1 % (related to Oil mist, mineral)

Lubricating oils (petroleum), C>25, hydrotreated bright stock (72623-83-7)

1 % (related to Oil mist, mineral)

Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4)

1 % (related to Oil mist, mineral)

Canadian Environmental Protection Act (CEPA)

All the components of these products are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

* * * Section 16 - Other Information * * *

Label/Other Information

Not available

Revision Information

New Issue MSDS; Mil formula.

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, or 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 supplier to the user.