



## Material Safety Data Sheet

Material Name: ECOPOWER NGP-2 15W40 NATURAL GAS ENGINE OIL

ID: 820102

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

**Product Code:** Prefix 22

**Chemical Name:** ECOPOWER NGP-2 15W40 NATURAL GAS ENGINE OIL

**Product Use:** For lubricating natural gas engines. If this product is 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

2600 North Central Expressway

Suite 400

Richardson, TX 75080

Emergency # 1-800-468-1760

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www.safety-kleen.com

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PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

### \*\*\* Section 2 - Hazardous Identification \*\*\*

#### EMERGENCY OVERVIEW

##### Appearance

Liquid, amber, petroleum odor.

##### Signal Word

CAUTION!

##### Health Hazards

May irritate eyes and skin.

May be harmful if swallowed.

#### POTENTIAL HEALTH EFFECTS

##### Inhalation (Breathing)

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

##### Eyes

May cause irritation.

##### Skin

May cause irritation. A single prolonged exposure is 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.

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## 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). Prolonged or repeated inhalation or ingestion may cause liver, kidney and blood damage.

## Cancer Information

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

Also see **SECTION 15: CALIFORNIA**.

## Environmental Hazards

Harmful to aquatic life. Also see **SECTION 12: ECOLOGICAL INFORMATION**.

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

| CAS          | Component                                                             | Percent |
|--------------|-----------------------------------------------------------------------|---------|
| 64742-58-1   | Lubricating oils, petroleum, hydrotreated spent                       | 86-88   |
| 8012-95-1    | Highly refined mineral oil (C15-C50)                                  | 3-5     |
| 68411-46-1   | Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | 1-1.5   |
| Trade Secret | Additives*                                                            | 2-3     |

### \*\*\* 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 oxides of nitrogen, sulfur, zinc, phosphorous; carbon monoxide, hydrogen sulfide, alkyl mercaptans, sulfides and 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

### Fire Fighting Equipment/Instructions

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

**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. Product is 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 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. 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, 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 heat, 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)

##### Highly refined mineral oil (C15-C50) (8012-95-1)

**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)

### 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.

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## Personal Protective Equipment: Respiratory

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.

## 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 product is 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 this product.

## Other Personal Protective Equipment

Where spills and splashes are likely, facilities storing or using this product 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 :** Liquid, amber, petroleum odor.

**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)

**pH:** Not applicable

**Melting Point:** Not available [pour point 10°F  
(-12°C) (maximum)]

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

**Octanol/H2O Coeff.:** Not available

**Molecular Weight:** Not applicable

**Auto Ignition:** Not available.

**Flash Point:** 410°F (210°C) (minimum)  
Cleveland Open Cup

**Viscosity:** Greater than 100 SUS

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

### Stability

Stable under normal temperatures and pressures. Avoid sparks or flame when not in use.

### Incompatibility

Avoid oxidizing agents and acids.

### 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

Sparks, flame, and incompatible materials.

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## \*\*\* 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

#### Highly refined mineral oil (C15-C50) (8012-95-1)

Oral LD50 Mouse 22 g/kg (related to Oil mist, mineral)

### Acute Effects

May irritate 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)

#### Highly refined mineral oil (C15-C50) (8012-95-1)

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

### Mutagenicity

Experimental evidence suggests that this product does not cause mutagenesis.

### Teratogenicity

Based on best current information, there is no known teratogenicity associated with this product.

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

No information available for the product.

### Component Analysis - Ecotoxicity - Aquatic Toxicity

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

##### Duration/Test/Species

96 Hr LC50 Brachydanio rerio

96 Hr LC50 Pimephales promelas

##### Concentration/Conditions/Notes

79.6 mg/L [semi-static]

3.2 mg/L [semi-static]

### Persistence/Degradability

May cause long-term adverse effects in the aquatic environment.

### Bioaccumulation/Accumulation

No data available for this product.

### Mobility in Environmental Media

Product is expected to float on water and have low mobility through soil.

### 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

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

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## \*\*\* 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.

## \*\*\* Section 15 - Regulatory Information \*\*\*

### Volatile Organic Compounds (As Regulated)

Negligible. As per 40 CFR Part 51.100(s)

### SARA Sections 311/312

This product poses the following health hazards as defined in 40 CFR Part 370 and is 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

This product does not contain "toxic" chemicals 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 not contain any "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.

### 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 this product 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  |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | 68411-46-1 | Yes  |

### California

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

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

### Canadian Regulations

This product has 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 |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | 68411-46-1 | DSL |

### Canadian WHMIS Information

Not regulated.

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### 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).

|                                                   |
|---------------------------------------------------|
| <b>* * * Section 16 - Other Information * * *</b> |
|---------------------------------------------------|

#### Label/Other Information

Not available.

#### Revision Information

Section 1 Product Name; section 15, California.

#### Disclaimer

User assumes all risks incident to the use of this (these) product(s). 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 express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.

End of Sheet 820102