NATIONAL | Premium Rust and Oxidation Oil ISO 22

Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)
Issue date: 10/23/2026 Version: 1.0

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Trade name : NATIONAL Premium R&O 22
Product code : 07-505022

1.2. Other means of identification

Other means of identification : Rust and Oxidation (R&O) Oils

1.3. Recommended use of the chemical and restrictions on use

Recommended use : General purpose machine oil
Restrictions on use : None known

1.4. Supplier's details

Manufacturer:
Pinnacle Oil Holdings, LLC.
8175 Allison Ave.
Indianapolis, IN 46268
T 1-317-875-9465
sds@pinnoil.com

Distributed by:
Pinnacle Oil Holdings, LLC.
8175 Allison Ave.
Indianapolis, IN 46268

1.5. Emergency phone number

Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virginia, USA)
CCN 710885
Back-up Emergency Number: +1 703-741-5970 (Washington, DC)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

GHS US classification

Reproductive toxicity, Category 2	H361	Suspected of damaging fertility or the unborn child.
Aspiration hazard, Category 1	H304	May be fatal if swallowed and enters airways.

Full text of H-statements: see section 16

2.2. Label elements

GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger
Hazard statements (GHS US) : H304 - May be fatal if swallowed and enters airways
H361 - Suspected of damaging fertility or the unborn child.
Obtain special instructions before use.
Precautionary statements (GHS US) : Do not handle until all safety precautions have been read and understood.
Wear protective gloves, protective clothing, eye and face protection.
If swallowed: Immediately call a poison center or doctor.
Do NOT induce vomiting.
If exposed or concerned: Get medical advice/attention.

Store locked up.
Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Distillates (petroleum), hydrotreated heavy paraffinic	CAS-No.: 64742-54-7	≤ 99.2	Not classified
Distillates (petroleum), hydrotreated light paraffinic	CAS-No.: 64742-55-8	0.35 – 0.525	Not classified
Benzenamine, N-phenyl-, reaction products with alkenes*	CAS-No.: Trade Secret	0.07 – 0.14	Repr. 2, H361 Aquatic Chronic 3, H412
Polymer*	CAS-No.: Trade Secret	0.04 – 0.09	Not classified
Benzotrizole complex*	CAS-No.: Trade Secret	0.035 – 0.07	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Distillates (petroleum), solvent-refined heavy	CAS-No.: 64741-88-4	0.01 – 0.06	Not classified

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Comments : The concentration ranges are provided due to batch-to-batch variability.

Full text of hazard classes and H-statements : see section 16

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : First Aid Provider: Pay attention to self protection. If medical advice is needed, have product container or label at hand. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	:	Aspiration of the product into the lungs may cause pneumonia.
Symptoms/effects after skin contact	:	Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	:	Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	:	May be fatal if swallowed and enters airways.
Chronic symptoms	:	Suspected of damaging fertility or the unborn child.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	:	If exposed or concerned, get medical advice and attention. Following inhalation: Subsequent observance for pneumonia and lung oedema.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	:	Dry chemical, CO2, alcohol-resistant foam or waterspray.
Unsuitable extinguishing media	:	Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	:	No fire hazard.
Explosion hazard	:	No direct explosion hazard.
Hazardous decomposition products in case of fire	:	Thermal decomposition generates: Carbon oxides (CO, CO2).

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	:	Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. Move containers from fire area if it can be done without personal risk. Use extinguishing media appropriate for surrounding fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	Avoid all personal contact including breathing in the mist, spray, vapours, Fume. Do not take actions involving personal risks. Absorb spillage to prevent material damage. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

For non-emergency personnel

Protective equipment	:	Wear recommended personal protective equipment.
Emergency procedures	:	Evacuate unnecessary personnel. If outdoors, move to an area upwind of the danger area. If possible without taking personal risks, Remove ignition sources, ventilate area. Prevent other non-emergency personnel from entering the danger area.

For emergency responders

Protective equipment	:	Wear recommended personal protective equipment.
Emergency procedures	:	Evacuate area. Stop leak if safe to do so. Eliminate ignition sources. Ventilate spillage area. Prevent runoff from entering drains, sewers or waterways.
Environmental precautions	:	Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment	:	Contain with non-combustible inert absorbent.
Methods for cleaning up	:	Take up in non-combustible inert absorbent and place into container for disposal. Contaminated absorbent material may pose the same hazard as the spilt product. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Notify authorities if product enters sewers or public waters.
Other information	:	Dispose of materials or solid residues at an authorized site.

For further information refer to section 8: "Exposure controls/personal protection",For further information refer to section 13: "Disposal considerations".

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing fume, mist, spray, vapours. Avoid contact with eyes, skin and clothing.
Hygiene measures	:	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions	:	Store in a cool, dry and well-ventilated area away from incompatible substances. Protect from sunlight. Keep away from heat.
Incompatible materials for storage	:	Oxidizing agents.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

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

USA - ACGIH® - Threshold Limit Values

Local name	Mineral oil, excluding metal working fluids Pure, highly and severely refined
ACGIH® TLV® TWA	5 mg/m³ (I - Inhalable particulate matter)
Remark (ACGIH®)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2026

8.2. Appropriate engineering controls

Appropriate engineering controls	:	Ensure good ventilation of the work station. Use general ventilation, local exhaust ventilation, or process enclosure to keep the airborne concentrations below the permissible exposure limits. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls	:	Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

Hand protection:
Wear protective gloves.
Eye protection:
Wear eye protection
Skin and body protection:
Body protection should be chosen depending on activity and possible exposure. Wear suitable protective clothing
Respiratory protection:
No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear. Bright.
Colour	:	Pale yellow Dark brown
Odour	:	Petroleum
Odour threshold	:	No data available
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	> 200 °C / 392 °F Cleveland Open Cup (D92)
Flammability (solid, gas)	:	Non flammable.
Vapour pressure	:	No data available
Relative vapour density at 20°C	:	No data available
Relative density	:	0.84
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	19.8 – 24.2 mm²/s @ 40 °C / 104 °F ASTM D445
Explosive limits	:	No data available
Particle characteristics	:	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Incompatible materials. Keep away from heat. Protect from sunlight.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Carbon oxides (CO, CO2).

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Distillates (petroleum), solvent-refined heavy	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 5530 mg/m³

Distillates (petroleum), hydrotreated light paraffinic	
LD50 oral rat	> 5000 mg/kg bodyweight

Benzotrizole complex	
LD50 dermal rabbit	> 2000 mg/kg bodyweight

Benzenamine, N-phenyl-, reaction products with alkenes	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight

Distillates (petroleum), hydrotreated heavy paraffinic	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Benzenamine, N-phenyl-, reaction products with alkenes	
NOAEL (animal/male, F1)	54 mg/kg bodyweight

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Distillates (petroleum), solvent-refined heavy	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.98 mg/l air

Distillates (petroleum), hydrotreated light paraffinic	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.98 mg/l air

Distillates (petroleum), hydrotreated heavy paraffinic	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.98 mg/l air

Aspiration hazard : May be fatal if swallowed and enters airways.

NATIONAL Premium R&O 22	
Viscosity, kinematic	19.8 – 24.2 mm²/s @ 40 °C / 104 °F ASTM D445

Symptoms/effects after inhalation : Aspiration of the product into the lungs may cause pneumonia.

Symptoms/effects after skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.

Symptoms/effects after eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways.

Chronic symptoms : Suspected of damaging fertility or the unborn child.

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

Benzotrizole complex	
LC50 - Fish [1]	180 mg/l
EC50 - Crustacea [1]	137 mg/l
EC50 72h - Algae [1]	75 mg/l
EC50 72h - Algae [2]	29 mg/l

Benzenamine, N-phenyl-, reaction products with alkenes	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	733 mg/l
EC50 72h - Algae [1]	> 100 mg/l

Benzenamine, N-phenyl-, reaction products with alkenes	
ErC50 algae	600 mg/l

Distillates (petroleum), hydrotreated heavy paraffinic	
LC50 - Fish [1]	> 5000 mg/l
EC50 - Crustacea [1]	> 1000 mg/l
EC50 96h - Algae [1]	> 1000 mg/l

12.2. Persistence and degradability

NATIONAL Premium R&O 22	
Persistence and degradability	Not established.

Distillates (petroleum), solvent-refined heavy	
Persistence and degradability	Not rapidly degradable

Distillates (petroleum), hydrotreated light paraffinic	
Persistence and degradability	Not rapidly degradable

Polymer	
Persistence and degradability	Not rapidly degradable

Benzotrizole complex	
Persistence and degradability	Not rapidly degradable

Benzenamine, N-phenyl-, reaction products with alkenes	
Persistence and degradability	Not rapidly degradable

Distillates (petroleum), hydrotreated heavy paraffinic	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

Benzenamine, N-phenyl-, reaction products with alkenes	
Partition coefficient n-octanol/water (Log Pow)	7.05

Distillates (petroleum), hydrotreated heavy paraffinic	
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6

12.4. Mobility in soil

Benzenamine, N-phenyl-, reaction products with alkenes	
Mobility in soil	60460

12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Regional waste regulation	:	Dispose of in accordance with applicable federal, state, and local regulations.
Waste treatment methods	:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	:	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	:	Dispose in a safe manner in accordance with local/national regulations.
Additional information	:	Do not re-use empty containers.
Ecological waste information	:	Avoid release to the environment.

SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
	Not regulated	
No supplementary information available		

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT
Not regulated

IMDG
Not regulated

IATA
Not regulated

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) 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.

15.2. International regulations

CANADA

Distillates (petroleum), solvent-refined heavy (64741-88-4)

Listed on the Canadian DSL (Domestic Substances List)

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

Listed on the Canadian DSL (Domestic Substances List)

Benzotrizole complex

Listed on the Canadian DSL (Domestic Substances List)

Benzenamine, N-phenyl-, reaction products with alkenes

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Distillates (petroleum), solvent-refined heavy (64741-88-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Benzotrizole complex

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Benzenamine, N-phenyl-, reaction products with alkenes

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Distillates (petroleum), hydrotreated light paraffinic(64742-55-8)	U.S. - Massachusetts - Right To Know List
Benzotrizole complex()	U.S. - Massachusetts - Right To Know List

SECTION 16 Other Information

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)
Issue date : 10/23/2026

Full text of hazard classes and H-statements	
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.