



SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID: NIT1163, NIT1164
Product Name: Nitro 10w-30 CK-4 Diesel Oil
Revision Date: 27-Oct-21 **Supersedes Date:** 15-Mar-17
Version: 3
Distributor's Name: NitroLubricants, USA
Address: PO Box 204
Forest Lake, MN 55025
Emergency Phone: 800-535-5053
Information Phone: 855-587-7515
Product Recommended Use: Diesel Engine Oil

SECTION 2: HAZARDS IDENTIFICATION

OSHA/HSC Status:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the Substance or Mixture:

Serious eye damage/eye irritation - Category 2A

Pictograms:



Signal Word:

Warning

Hazardous Statements - Health:

H319 - Causes serious eye irritation.

Precautionary Statements - Prevention:

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P264 - Wash thoroughly after handling.

Precautionary Statements - Responsive:

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - IF EYE IRRITATION PERSISTS: Get medical advice/attention.

Precautionary Statements - Storage:

Not applicable

Precautionary Statements - Disposal:

Not applicable

Hazards not otherwise classified:

None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:

Mixture

Other means of identification

Not available

Ingredient Name	% (w/w)	CAS #
Paraffin oils (petroleum), catalytic dewaxed light	1% - 5%	64742-71-8
Phosphorodithioic acid, mixed O, O-bis (sec-Bu and isooctyl) esters, zinc salts	1% - 5%	113706-15-3

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

Description of Necessary First-Aid Measures**Eye Contact:**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as tie, collar, belt or waistband.

Skin Contact:

Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion:

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep it at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed**Potential Acute Health Effects:****Eye Contact:**

Causes serious eye irritation.

Inhalation:

No known significant effects or critical hazards.

Skin Contact:

No known significant effects or critical hazards.

Ingestion:

No known significant effects or critical hazards.

Over-Exposure Signs/Symptoms**Eye Contact:**

Adverse symptoms may include the following: pain or irritation, watering, redness

Inhalation:

No known significant effects or critical hazards.

Skin Contact:

No known significant effects or critical hazards.

Ingestion:

No known significant effects or critical hazards.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary

Notes to Physician:

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific Treatments:

No specific treatment.

Protection of First-Aiders:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See Toxicological Information (Section 11).

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

In case of fire, use foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media:

Do not use high volume water jet as an extinguisher, as this may spread the fire.

Specific Hazards arising from the Chemical:

No specific fire or explosion hazard.

Hazardous Thermal Decomposition Products:

Carbon Oxides

Special Protective Actions for Fire-Fighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment for Fire-Fighters:

Fire-Fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

For non-Emergency Personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Emergency Responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental Precautions:

Avoid dispersal of spilled materials and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and Materials for Containment and Cleaning up

Spill:

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Protective Measures:

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on General Occupational Hygiene:

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. See also Section 8 for additional information on hygiene measures.

Conditions for Safe Storage Including any Incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Control Parameters

United States Occupational Exposure Limits

Ingredient Name	Exposure Limits
Paraffin oils (petroleum), catalytic dewaxed light	ACGIH TLV (United States, 3/2017) TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
	OSHA PEL (United States, 6/2016). TWA: 5 mg/m ³ 8 hours
	NIOSH REL (United States, 10/2016) TWA: 5 mg/m ³ 10 hours. Form: Mist STEL: 10 mg/m ³ 15 minutes. Form: Mist
Phosporodithioic acid, mixed O, O-bis(sec-Bu and isooctyl) esters, zinc salts	None

Canada Occupational Exposure Limits

Ingredient Name	Exposure Limits
Paraffin oils (petroleum), catalytic dewaxed light	CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: mg/m ³ 8 hours. Form: Mist 15 min OEL: 10 mg/m ³ 15 minutes. Form: Mist
	CA Quebec Provincial (Canada, 1/2014) TWAAEV: 5 mg/m ³ 8 hours. Form: Mist STEV: 10 mg/m ³ 15 minutes. Form: Mist

Appropriate Engineering Controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental Exposure Controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual Protection Measure

Hygiene Measures:

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gasses or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin Protection

Hand Protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer. Check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other Skin Protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection:

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard of certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State	Liquid
Color	Amber
Odor	Petroleum
Odor Threshold	Not available
pH	Not available
Melting Point	Not available
Boiling Point	Not available
Flash Point, COC	> 220°C (> 428°F) ASTM D92
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Lower and Upper Explosive (flammable) limits	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Specific gravity @ 60F	> 0.86
Solubility	Not available
Partition Coefficient: n-octanol/water	Not available
Auto Ignition Temp	Not available

Decomposition Temp	Not available
Kinematic Viscosity at 40°C	> 83 cSt [ASTM D445]
Flow Time (ISO 2431)	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability:

The product is stable.

Possibility of Hazardous Reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid:

No specific data.

Incompatible Materials

Reactive or incompatible with the following materials: oxidizing materials.

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity:

There is no data available.

Irritation/Corrosion:

There is no data available.

Sensitization:

There is no data available.

Mutagenicity:

There is no data available.

Carcinogenicity:

There is no data available.

Reproductive Toxicity:

There is no data available.

Teratogenicity:

There is no data available.

Specific Target Organ Toxicity - Single Exposure:

There is no data available.

Specific Target Organ Toxicity - Repeated Exposure:

There is no data available.

Aspiration Hazard:

Name	Result
Paraffin oils (petroleum), catalytic dewaxed light	Aspiration Hazard - Category 1

Information on the likely Routes of Exposure:

Dermal contact, eye contact, inhalation, ingestion

Potential Acute Health Effects:

Eye Contact:

Causes serious eye irritation.

Inhalation:

No known significant effects or critical hazards.

Skin Contact:

No known significant effects or critical hazards.

Ingestion:

No known significant effects or critical hazards.

Symptoms related to the Physical, Chemical and Toxicological Characteristics**Eye Contact:**

Adverse symptoms may include the following: pain or irritation, watering, redness

Inhalation:

No known significant effects or critical hazards.

Skin Contact:

No known significant effects or critical hazards.

Ingestion:

No known significant effects or critical hazards.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure**Short Term Exposure****Potential Immediate Effects:**

No known significant effects or critical hazards.

Potential Delayed Effects:

No known significant effects or critical hazards.

Long Term Exposure**Potential Immediate Effects:**

No known significant effects or critical hazards.

Potential Delayed Effects:

No known significant effects or critical hazards.

Potential Chronic Health Effects**General:**

No known significant effects or critical hazards.

Carcinogenicity:

No known significant effects or critical hazards.

Mutagenicity:

No known significant effects or critical hazards.

Teratogenicity:

No known significant effects or critical hazards.

Developmental Effects:

No known significant effects or critical hazards.

Fertility Effects:

No known significant effects or critical hazards.

Numerical Measures of Toxicity**Acute Toxicity Estimates:**

There is no data available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

There is no data available.

Persistence and Degradability:

There is no data available.

Bio-Accumulative Potential:

There is no data available.

Mobility in Soil:**Soil/water partition coefficient (K_{oc}):**

Not available

Other Adverse Effects:

No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods:

The generation of waste should be avoided or minimize wherever possible. Disposal of the product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

	DOT Classification	TDG Classification	IMDG	IATA
UN Number	Not regulated	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name	-	-	-	-
Transport Hazard Class(es)	-	-	-	-
Packing Group	-	-	-	-
Environmental Hazards	No	No	No	No

AERG: Not applicable

Special Precautions for User:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations:

United States Inventory (TSCA 8b):all components are listed or exempted

Clean Water Act (CWA) 307: Phosphorodithioic acid, mixed O, O-bis(sec-Bu, and Isooctyl) esters, zinc salts, Benzene, Toluene

Clean Water Act (CWA) 311: Benzene; Fumaric acid; Toluene; Ethylenediamine; Vinyl acetate

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs):

Listed

Clean Air Act Section 602 Class I Substances:

Not listed

Clean Air Act Section 602 Class II Substances:

Not listed

DEA List I Chemicals (Precursor Chemicals):

Not listed

DEA List II Chemicals (Essential Chemicals):

Not listed

SARA 302/304

Composition/Information on Ingredients

Name	EHS	SARA 302 TPQ		SARA 304 RQ	
		(lbs)	(gallons)	(lbs)	(gallons)
Ethylenediamine	Yes	10000	1337.1	5000	668.5

Vinyl Acetate	Yes	1000	129	5000	644.8
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SARA 304 RQ:

64984013.9 lbs / 29502742.3 kg [8958390.8 gal / 33911198.1 L]

SARA 311/312

Classification:

Serious eye damage/eye irritation - Category 2A

Composition/Information on Ingredients

Name	Classification
Paraffin oils (petroleum), catalytic dewaxed light	Aspiration Hazard - Category 1
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	Skin corrosion/irritation - Category 2 Serious eye damage/eye irritation - Category 1

SARA 313

	Product Name	CAS #
Reporting Requirements	Phosphorodithioic acid, mixed O, O-bis(sec-Bu and isooctyl) esters, zinc salts	113706-15-3
Supplier Notification	Phosphorodithioic acid, mixed O, O-bis(sec-Bu and isooctyl) esters, zinc salts	113706-15-3

Sara 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State Regulations

Massachusetts:

The following components are listed: Distillates (petroleum), hydrotreated heavy paraffinic; Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based, Paraffin oils (petroleum), catalytic dewaxed light

New York:

None of the components are listed.

New Jersey:

acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts

Pennsylvania:

The following components are listed: Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts

California Prop 65:

WARNING: This product can expose you to chemicals including Benzene, Lead and Lead Compounds and Nickel compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Toluene and Ethanediol, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Canadian Lists

Canada Inventory (DSL NDSL)

All components are listed or exempted.

Canadian NPRI:

The following components are listed: Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts

CEPA Toxic Substances:

None of the components are listed.

SECTION 16: OTHER INFORMATION

National Fire Protection Association (USA)

Health: 1 Flammability: 1 Instability: 0

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Copyright 2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

NFPA

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

N = No rating for powders

Procedure used to derive the Classification

Classification	Justification
Serious eye damage/eye irritation - Category 2A	Calculation method

Glossary:

ACGIH - American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-to-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC-Lethal Concentration; LD-Lethal Dose; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL-Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA- Time-Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.