



SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID: NIT1130
Product Name: Nitro 80w-90 Gear Oil
Revision Date: 26-Oct-21
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: Gear Oil

Supersedes Date: 15-Aug-18

SECTION 2: HAZARDS IDENTIFICATION

OSHA/HCS Status:

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

Classification of the Substance or Mixture:

Hazard Pictogram:



Signal Word:

Warning

Hazardous Statement:

H317 - May cause an allergic skin reaction.

Precautionary Statements - Prevention:

P280 - Wear eye protection/face protection

P261 - Avoid breathing vapor.

Precautionary Statements - Responsive:

P363 - Wash contaminated clothing before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

Precautionary Statements - Storage:

Not applicable.

Precautionary Statements - Disposal:

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not Otherwise Classified:

None Known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:

Mixture

Other Means of Identification:

Ingredient name	CAS #	%
Residual Oils (petroleum), solvent-dewaxed	64742-62-7	65% - 85%
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	60% - 80%
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	3% - 7%
Olefin Sulfide	-	1% - 5%

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 if irritation occurs.

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 adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or wasteband.

Skin Contact:

Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. 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 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 if

Most Important Symptoms/Effects, Acute and Delayed**Potential Acute Health Effects:****Eye Contact:**

No known significant effects or critical hazards.

Inhalation:

No known significant effects or critical hazards.

Skin Contact:

May cause an allergic skin reaction.

Ingestion:

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

Inhalation:

No known significant effects or critical hazards.

Skin Contact:

Adverse symptoms may include the following: Irritation, Redness

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.

Special 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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 in Case of Fire:

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.

For 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 material 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:

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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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. 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
Residual oils (petroleum), solvent-dewaxed	OSHA PEL (United States, 5/2018) TWA: 5 mg/m ³ , 8 hours
	ACGIH TLV (United States, 3/2018) TWA: 5 mg/m ³ 8 hours. Form: Inhalable Fraction
	NIOSH REL (United States, 10/2016) TWA: 5 mg/m ³ 10 hours. Form: Mist STEL: 10 mg/m ³ 15 minutes. Form: Mist
Distillates (petroleum), hydrotreated heavy paraffinic	OSHA PEL (United States, 5/2018) TWA: 5 mg/m ³ , 8 hours
	ACGIH TLV (United States, 3/2018) TWA: 5 mg/m ³ 8 hours. Form: Inhalable Fraction
	NIOSH REL (United States, 10/2016) TWA: 5 mg/m ³ 10 hours. Form: Mist STEL: 10 mg/m ³ 15 minutes. Form: Mist
Distillates (petroleum), solvent-refined heavy paraffinic	OSHA PEL (United States, 5/2018) TWA: 5 mg/m ³ , 8 hours
	ACGIH TLV (United States, 3/2018) TWA: 5 mg/m ³ 8 hours. Form: Inhalable Fraction
	NIOSH REL (United States, 10/2016) TWA: 5 mg/m ³ 10 hours. Form: Mist STEL: 10 mg/m ³ 15 minutes. Form: Mist
Olefin sulfide	None.

Canada Occupational Exposure Limits

Ingredient Name	Exposure Limits
	CA Alberta Provincial (Canada, 6/2018) 8 hrs OEL: 5 mg/m ³ 8 hours. Form: Mist

Residual oils (petroleum), solvent-dewaxed	CA Quebec Provincial (Canada, 1/2014) TWA EV: 5 mg/m ³ 8 hours. Form: Mist STEV: 10 mg/m ³ 15 minutes. Form: Mist
Distillates (petroleum), hydrotreated heavy paraffinic	CA Alberta Provincial (Canada, 6/2018) 8 hrs OEL: 5 mg/m ³ 8 hours. Form: Mist
	CA Quebec Provincial (Canada, 1/2014) TWA EV: 5 mg/m ³ 8 hours. Form: Mist STEV: 10 mg/m ³ 15 minutes. Form: Mist
Distillates (petroleum), solvent-refined heavy paraffinic	CA Alberta Provincial (Canada, 6/2018) 8 hrs OEL: 5 mg/m ³ 8 hours. Form: Mist
	CA Quebec Provincial (Canada, 1/2014) TWA EV: 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 Measures

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the work station 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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Safety glasses with side shields.

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 or 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	Pale yellow. Amber.
Odor	Petroleum
Odor Threshold	Not available
pH	Not available
Melting Point	Not available
Boiling Point	Not available
Flash Point, COC	Not available
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	0.88 - 0.91
Solubility	Not available
Partition Coefficient: n-octanol/water	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity at 40°C	> 100 cSt
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:

This 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:

There is no data available.

Information on the likely routes of exposure

Dermal contact, Ingestion

Potential Acute Health Effects

Eye Contact:

No known significant effects or critical hazards.

Inhalation:

No known significant effects or critical hazards.

Skin Contact:

May cause an allergic skin reaction.

Ingestion:

No known significant effects or critical hazards.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Eye Contact:

No known significant effects or critical hazards.

Inhalation:

No known significant effects or critical hazards.

Skin Contact:

Adverse symptoms may include the following: Irritation, Redness

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:

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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:

Product/Ingredient Name	LogP _{ow}	BCF	Potential
Distillates (petroleum), solvent-refined heavy paraffinic	3.9 to 6	-	high

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 minimized wherever possible. Disposal of this 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)	-	-	-	-
Packaging 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:

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

Clean Air Act Section 602 Class I Substances:

Clean Air Act Section 605 Class II Substances:

DEA List I Chemicals (precursor chemicals):

DEA List II Chemicals (essential chemicals):

SARA302/304

Composition/Information on Ingredients:

Name	%	EHS	SARA302 TPQ		SARA304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Propylene Oxide	≤ 0.00001	Yes	10000	1444.3	100	14.4
Ethylene Oxide	≤ 0.00001	Yes	1000	-	10	-

SARA 304 RQ

6253908692.9 lbs/2839274546.6 kg [838052495.2 gal/3172373795.1L]

SARA 311/312

Classification:

Skin Sensitization - Category 1

Composition/Information on Ingredients:

Name	%	Classification
Olefin Sulfide	≥ 1 - ≤ 3	Flammable Liquids - Category 4 Skin Sensitization - Category 1B

State Regulations

Massachusetts:

The following components are listed: Residual oils (petroleum), solvent-dewaxed; Distillates (petroleum), hydrotreated heavy paraffinic; Distillates (petroleum), solvent-refined heavy paraffinic

New York:

None of the components are listed.

New Jersey:

None of the components are listed.

Pennsylvania:

None of the components are listed.

California Prop. 65:

Warning: This product can expose you to chemicals including 4-Methylpentan-2-one and Ethylene oxide, 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 Ethyl Acrylate, Propylene oxide and 1, 4-Dioxane, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient Name	No Significant Risk Level	Maximum Acceptable Dosage Level
Ethyl acrylate	-	-
4-Methylpentan-2-one	-	-
Propylene oxide	-	-
1, 4-Dioxane	Yes	-
Ethylene oxide	Yes	Yes

Canadian Lists

Canada Inventory (DSL NDSL):

All components are listed or exempted.

Canadian NPRI:

None of the components are listed.

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 chemical with recommended classification 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 Hazard Ratings

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

N = No rating for powders

Procedure used to derive the classification

Classification	Justification
Skin Sensitization - Category 1	Calculation Method

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.