



# SAFETY DATA SHEET

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## SECTION 1: CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

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**Product ID:** NIT1105, NIT1106, NIT1110, NIT1111, NIT1115, NIT1116  
**Product Name:** Nitro Hydraulic Fluid, AW32, AW46, AW68  
**Revision Date:** 26-Oct-21 **Supersedes Date:** 30-Jun-18  
**Version:** 5  
**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:** Lubricant

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## SECTION 2: HAZARDS IDENTIFICATION

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### OSHA/HCS Status:

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

### Classification of the substance or mixture:

Not classified

### GHS Label Elements

#### Signal Word:

No signal word

#### Hazard Statements:

No known significant effects or critical hazards.

#### Precautionary Statements:

#### Prevention:

Not applicable

#### Response:

Not applicable

#### Storage:

Not applicable

#### Disposal:

Not applicable

#### Hazards not otherwise classified (US):

None Known

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### Substance/Mixture:

Mixture

### Other means of Identification:

CAS #	Chemical Name	% by Weight
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	80% - 100%
128-39-2	2, 6-di-tert-Butylphenol	0.1% - 1%

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

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## SECTION 4: FIRST AID MEASURES

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### 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. Get medical attention if irritation occurs.

#### Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

#### Skin Contact:

Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

#### Ingestion:

Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### 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:

No known significant effects or critical hazards.

#### 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:

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.

## **See toxicological information (Section 11)**

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## **SECTION 5: FIRE-FIGHTING MEASURES**

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### **Extinguishing Media**

#### **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.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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### **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. 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:**

##### **Small Spill:**

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

##### **Large Spill:**

Stop leak if without risk. Move containers from spill area. 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. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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## **SECTION 7: HANDLING AND STORAGE**

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### **Precautions for Safe Handling**

#### **Protective Measures:**

Put on appropriate personal protective equipment (see Section 8).

**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.

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**SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION**

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**Control Parameters**

**United States Occupational Exposure Limits:**

Ingredient Name	Exposure Limits
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 3/20/2019). TWA: 5 mg/m <sup>3</sup> , 8 hours. Form: Inhalable fraction
	NIOSH REL (United States, 10/2016). TWA: 5 mg/m <sup>3</sup> , 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> , 15 min. Form: Mist
	OSHA PEL (United States, 5, 2018). TWA: 5 mg/m <sup>3</sup> , 8 hours.
2, 6-di-tert-Butylphenol	None

**Canada Occupational Exposure Limits:**

Ingredient Name	Exposure Limits
Distillates (petroleum), hydrotreated heavy paraffinic	CA Alberta Provincial (Canada 6/2018). 8 hrs OEL: 5 mg/m <sup>3</sup> , 8 hours. Form: Mist 15 min OEL: 10 mg/m <sup>3</sup> , 15 minutes. Form: Mist
	CA Quebec Provincial (Canada 1/2014). TWAEV: 5 mg/m <sup>3</sup> , 8 hours. Form: Mist STEV: 10 mg/m <sup>3</sup> , 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. 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: safety glasses with side-shields.

**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.

### **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.

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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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Physical State	Liquid
Color	Pale Yellow
Odor	Petroleum
Odor Threshold	Not Available
pH	Not Available
Melting/Freezing Point	Not Available
Initial Boiling Point and Boiling Range	Not Available
Flash Point, COC	> 190°C (>374°F)
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
Relative Density	> 0.855
Solubility	Not Available
Solubility in Water	Not Available
Partition Coefficient: n-octanol/water	Not Available
Auto Ignition Temp	Not Available
Decomposition Temp	Not Available
Kinematic Viscosity at 40°C	> 41.4 cSt
Flow time (ISO 2431)	Not Available

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## **SECTION 10: STABILITY AND REACTIVITY**

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### **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.

### **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:

Product/Ingredient Name	Result	Species	Dose	Exposure
2, 6-di-tert-Butylphenol	LD50 Dermal	Rabbit	> 10 g/kg	-
	LD50 Oral	Rat	> 5000 mg/kg	-

#### Irritation/Corrosion

Product/Ingredient Name	Result	Species	Score	Exposure	Observation
2, 6-di-tert-Butylphenol	Skin - Moderate Irritant	Rat	-	0.5 mL	-

#### 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

Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential Acute Health Effects

##### Eye Contact:

No Known Significant effects or critical hazards.

##### 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:

No Known Significant effects or critical hazards.

##### 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.

**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.

**Reproductive Toxicity:**

No Known Significant effects or critical hazards.

**Numerical Measures of Toxicity:**

**Acute Toxicity Estimates:**

There is no data available.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**Toxicity:**

There is no data available.

**Persistence and Degradability:**

There is no data available.

**Bio-Accumulative Potential:**

Product/Ingredient Name	LogP <sub>ow</sub>	BCF	Potential
2, 6-di-tert-Butylphenol	4.5	-	High

**Mobility in Soil:**

**Soil/Water Partition Coefficient (K<sub>oc</sub>):**

Not Available

**Other Adverse Effects:**

No known significant effects or critical hazards.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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**SECTION 14: TRANSPORT INFORMATION**

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	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

**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.

**Transport in Bulk According to IMO Instruments:**

Not available.

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**SECTION 15: REGULATORY INFORMATION**

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**US Federal Regulations:**

**TSCA 8(a) PAIR:** Phenol, (tetrapropenyl) derivatives

**TSCA 8(a) CDR Exempt/Partial Exemption:** Not Determined

**Clean Water Act (CWA) 307:** Zinc bis [O,O-bis(2-ethylhexyl)] bis(dithiophosphate); Phenol

**Clean Water Act (CWA) 311:** Phenol; Propylene Oxide

**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)
Phenol	≤ 0.00001	Yes	500/10000	-	1000	-
Ethylene Oxide	≤ 0.00002	Yes	1000	-	10	-
Propylene Oxide	≤ 0.00003	Yes	10000	1444.3	100	14.4

**SARA 304 RQ**

1169590643.3 lbs/530994152 kg [149148128.4 gal/564587083.5L]

**SARA311/312**

**Classification**

Not Applicable

**Composition/Information on Ingredients:**

No products were found.

**State Regulations:**

**Massachusetts:**

The following components are listed: Distillates (petroleum), hydrotreated 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 Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Propylene oxide, 1, 4-Dioxane and Ethyl acrylate, which are known to the State of California to cause cancer, and Ethanediol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



## Canadian Lists

**Canadian NPRI:** None of the components are listed.

**CEPA Toxic Substances:** None of the components are listed.

## International Regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals:

Not Listed

### Montreal Protocol:

Not Listed

### Stockholm Convention on Persistent Organic Pollutants:

Not Listed

### Rotterdam Convention on Prior Informed Consent (PIC):

Not Listed

### UNECE Aarhus Protocol on POPs and Heavy Metals:

Not Listed

## Inventory List

**Australia** Not Determined

**Canada** Not Determined

**China** Not Determined

**Europe** Not Determined

**Japan** Japan inventory (ENCS): Not Determined  
Japan inventory (ISHL): Not Determined

**New Zealand** Not Determined

**Philippines** Not Determined

**Republic of Korea** Not Determined

**Taiwan** Not Determined

**Thailand** Not Determined

**Turkey** Not Determined

**United States (TSCA 8B)** All components are active or exempted

**Vietnam** Not Determined

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## SECTION 16: OTHER INFORMATION

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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 a 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 Hazard Rating

**4** Extreme

**3** High

**2** Moderate

**1** Slight

**0** Insignificant

**N** No rating for powders

### Procedure used to derive the classification

Classification	Justification
Not Classified	

### History

**Date of issue/Date of Revisions: 12/30/2020**

**Date of Previous Issue: 6/30/2018**

**Version: 5**

**Key to abbreviations:**

**ATE** Acute Toxicity Estimate

**BCF** Bioconcentration Factor

**GHS** Globally Harmonized System of Classification and Labelling of Chemicals

**IATA** International Air Transport Association

**IBC** Intermediate Bulk Container

**IMDG** International Maritime Dangerous Goods

**LogPow** Logarithm of the Octanol/Water Partition Coefficient

International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978.

**MARPOL** ("Marpol: Marine Pollution)

**NA** Not Available

**SGG** Segregation Group

**UN** United Nations

**Internal Code** 231-030

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