

# CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.



Product name: RHEOLUBE 377AL

Issue date: February-28-2011

Revision date: February-21-2025

Version #: 16

SDS No: RHEOLUBE 377AL

## SECTION 1 Chemical product and company identification

<b>Product Name</b>	<b>RHEOLUBE 377AL</b>	
<b>Product Code</b>	RHEOLUBE 377AL	
<b>Manufacturer/Supplier</b>	Nye Lubricants, Inc. A Member of the FUCHS Group	
<b>Address</b>	12 Howland Road Fairhaven, MA 02719 United States	
<b>Contact person</b>	Not available.	
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<b>Emergency telephone number</b>	Americas	+1 760 476 3961
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	Access code	334212

### Recommended use and Limitations on use

<b>Recommended use</b>	Lubricating Grease
<b>Issue date</b>	February-28-2011
<b>Revision date</b>	February-21-2025
<b>Supersedes date</b>	January-26-2023

## SECTION 2 Hazards identification

<b>Emergency overview</b>	May cause an allergic skin reaction. Possible reproductive hazard. Dangerous for the environment if discharged into watercourses.
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### GHS hazard categories

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Sensitization, skin	Category 1
	Reproductive toxicity	Category 2
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 3

### Label elements

#### Pictograms



<b>Signal word</b>	Warning
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#### Hazard statement

H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H402	Harmful to aquatic life.

#### Precautionary statement

<b>Prevention</b>	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

**Safety storage**

P405	Store locked up.
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**Disposal**

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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**Physical and chemical hazards**

The product is stable and non-reactive under normal conditions of use, storage and transport. No unusual fire or explosion hazards noted.

**Health hazards**

Prolonged inhalation may be harmful. May cause an allergic skin reaction. Expected to be a low ingestion hazard. Direct contact with eyes may cause temporary irritation.

**Environmental hazards**

Harmful to aquatic life.

**Other hazards**

The mixture contains a substance included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

**Supplemental information**

None.

**SECTION 3 Composition/information on ingredients**

Substance/mixture	Mixture	
Chemical name	Concentration (%)	CAS Number
二硫化钼 MOLYBDENUM DISULFIDE	5 - < 10	1317-33-5
异丁烯化苯酚磷酸酯(3:1) PHENOL, ISOBUTYLENATED, PHOSPHATE (3:1)	1 - < 3	68937-40-6
苯醌胺, N-苯基-, 与2,4,4-三甲基戊烯的反应产物 BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE	< 1	68411-46-1
石油馏分, 加氢重质环烷油 PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC	< 1	64742-52-5
磷酸三苯脂 TRIPHENYL PHOSPHATE	< 1	115-86-6
2,5-呋喃二酮, 二氢-3-(十八烷基)- 2,5-FURANDIONE, DIHYDRO-3-(OCTADECENYL)-	< 0.3	28777-98-2
石英 QUARTZ	< 0.2	14808-60-7
Other components below reportable levels	90 - 100	

**SECTION 4 First aid measures**

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms and health effects</b>	May cause an allergic skin reaction. Dermatitis. Rash.
<b>Personal protection for first-aid responders</b>	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
<b>Notes to physician</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**SECTION 5 Fire-fighting measures**

<b>Extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
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<b>Extinguishing media to avoid</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards</b>	During fire, gases hazardous to health may be formed.
<b>Special fire fighting procedures</b>	Use water spray to cool unopened containers.
<b>Protection of fire-fighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
<b>For emergency responders</b>	Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

<b>Environmental precautions</b>	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
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<b>Clean-up methods and materials and containment measures</b>	Prevent product from entering drains. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
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<b>Prevention of secondary hazards</b>	Not available.
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## SECTION 7 Handling and storage

<b>Handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
<b>Storage</b>	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Storage class (TRGS 510): 11 (Combustible solids that cannot be assigned to any of the above storage classes)

## SECTION 8 Exposure controls/personal protection

### Exposure limits

#### Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents (GBZ 2.1-2019)

Components	Type	Value	Form
QUARTZ (CAS 14808-60-7)	PC-TWA	0.5 mg/m <sup>3</sup>	Total dust.
		0.2 mg/m <sup>3</sup>	Respirable dust.

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
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<b>Monitoring methods</b>	Follow standard monitoring procedures.
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<b>Engineering measures</b>	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
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### Personal protective equipment

<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
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<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
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<b>Eye protection</b>	If contact is likely, safety glasses with side shields are recommended.
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<b>Skin and body protection</b>	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
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**Hygiene measures**

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

**SECTION 9 Physical and chemical properties**

<b>Appearance</b>	Smooth
<b>Physical state</b>	Solid.
<b>Form</b>	Solid. Semi-solid
<b>Color</b>	Black.
<b>Odor</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Density</b>	0.96 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Other data</b>	
<b>Dropping point</b>	381.2 °F (194 °C)
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.
<b>Shelf life</b>	4 years

**SECTION 10 Stability and reactivity**

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

**SECTION 11 Toxicological information****Acute toxicity**

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
MOLYBDENUM DISULFIDE (CAS 1317-33-5)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	2500 mg/kg
<b>Oral</b>		
LD50	Rat	3200 mg/kg

Components	Species	Test Results
TRIPHENYL PHOSPHATE (CAS 115-86-6)		
<u>Acute</u>		
Oral		
LD50	Rat	3500 mg/kg
Routes of exposure	Inhalation. Skin contact.	
Symptoms	May cause an allergic skin reaction. Dermatitis. Rash.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitizer	May cause an allergic skin reaction.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity		
China OELs for hazardous agents in the workplace: Carcinogen Category		
Silica, respirable dust, 10% <= free SiO2 <= 50% (CAS 14808-60-7)		Carcinogenic to humans.
IARC Monographs. Overall Evaluation of Carcinogenicity		
PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)		3 Not classifiable as to carcinogenicity to humans.
QUARTZ (CAS 14808-60-7)		1 Carcinogenic to humans.
Toxic to reproduction	Suspected of damaging fertility or the unborn child.	
Specific target organ toxicity following single exposure	Not classified.	
Specific target organ toxicity following repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	

## SECTION 12 Ecological information

<b>Ecotoxicity</b>	Harmful to aquatic life.
<b>Persistence and degradability</b>	No data is available on the degradability of any ingredients in the mixture.
<b>Bioaccumulation</b>	
<b>Mobility in soil</b>	No data available for this product.
<b>Other hazardous effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13 Disposal considerations

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Local disposal regulations</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 14 Transport information

### CNDG

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15 Regulatory information

### Law of the People's Republic of China on Prevention and Control of Occupational Diseases

#### Classification of occupational disease hazards

Phosphorus and its compounds (phosphine, zinc phosphide, aluminum phosphide, and organic phosphorus are listed separately) (CAS 115-86-6)

Silica dust (free SiO<sub>2</sub> content ≥10%) (CAS 14808-60-7)

### Regulations on the Control over Safety of Dangerous Chemicals

#### Catalog of Hazardous Chemicals

Solvent naphtha [closed cup flash point ≤ 60 .degree.C] (CAS 64742-52-5)

### Provision on the Environmental Administration of New Chemical Substances

#### China Inventory of Existing Chemical Substances

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### SPECIAL CASE

Not applicable.

#### Other regulations

This safety data sheet conforms to the following laws, regulations and standards:

Measures for the Safe Use of Chemicals in Workplaces

General Rules for Preparation of Precautionary Labels for Chemicals (GB15258-2009 )

Regulations on Labor Protection in Workplaces Where Toxic Products Are Used

Packing Symbol of Dangerous Goods(GB190-2009)

Regulations on the Control over Safety of Dangerous Chemicals

Safety Data Sheet for Chemical Products - Content and Order of Sections (GB/T 16483-2008)

Packing - Pictorial Marking for Handling of Goods (GB/T191-2008)

#### China. National Catalogue of Hazardous Wastes

PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)

### Regulatory information

#### Stockholm Convention

Not applicable.

#### Rotterdam Convention

Not applicable.

#### Montreal Protocol

Not applicable.

#### Kyoto protocol

Not applicable.

#### Basel Convention

Not applicable.

## SECTION 16 Other information

#### References

EPA: ACQUIRE database

GB6944-2012: Classification and Code of Dangerous Goods.

GB12268-2012: List of Dangerous Goods.

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

#### Disclaimer

Nye Lubricants, Inc. A Member of the FUCHS Group cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

#### Revision information

This document has undergone significant changes and should be reviewed in its entirety.