

## Section 1: Identification

<b>Product identifier</b>	<b>NYOGEL 749B</b>	
<b>Other means of identification</b>		
<b>Product Code</b>	NYOGEL 749B	
<b>Recommended use of the chemical and restrictions on use</b>		
<b>Recommended use</b>	Lubricating Grease	
<b>Restrictions on use</b>	None known.	
<b>Details of manufacturer or importer</b>		
<b>Manufacturer</b>		
<b>Company name</b>	Nye Lubricants, Inc.	
<b>Address</b>	12 Howland Road Fairhaven MA 02719 United States	
<b>Telephone</b>	General Assistance	508-996-6721
<b>Website</b>	www.nyelubricants.com	
<b>E-mail</b>	sds@nyelubricants.com	
<b>Contact person</b>	Nye Lubricants EH&S	
<b>Emergency phone number</b>	3E Online	800-451-8346

## Section 2: Hazard identification

### Classification of the hazardous chemical

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

### Label elements, including precautionary statements

#### Hazard symbol(s)



Health hazard

#### Signal word

Warning

#### Hazard statement(s)

Suspected of damaging fertility or the unborn child. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

#### Precautionary statement(s)

##### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Use personal protective equipment as required.

##### Response

IF exposed or concerned: Get medical advice/attention.

##### Storage

Store locked up.

##### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Other hazards which do not result in classification

None.

#### Supplemental information

None.

## Section 3: Composition/information on ingredients

### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
1-DODECENE, POLYMER WITH 1-DECENE AND 1-OCTENE, HYDROGENATED	163149-28-8	5 - < 10
POLYBUTENE	9003-29-6	5 - < 10
BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE	68411-46-1	< 1
TRIPHENYL PHOSPHATE	115-86-6	< 0.3
Other components below reportable levels		80 - < 90

## Section 4: First-aid measures

### Description of necessary first aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<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>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.
<b>Symptoms caused by exposure</b>	Direct contact with eyes may cause temporary irritation.
<b>Medical attention and special treatment</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## Section 5: Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for fire fighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Hazchem code</b>	None.
<b>Hazards from combustion products</b>	None.
<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>	Wear appropriate protective equipment and clothing during clean-up.
<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.
<b>Methods and materials for containment and cleaning up</b>	Prevent product from entering drains.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## Section 7: Handling and storage

<b>Precautions for safe handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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>Conditions for safe storage, including any incompatibilities</b>	CAUTION Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## Section 8: Exposure controls/personal protection

**Control parameters** Follow standard monitoring procedures.

### Occupational exposure limits

#### New Zealand. WES. (Workplace Exposure Standards)

Components	Type	Value
TRIPHENYL PHOSPHATE (CAS 115-86-6)	TWA	3 mg/m <sup>3</sup>

#### US. ACGIH Threshold Limit Values

Components	Type	Value
TRIPHENYL PHOSPHATE (CAS 115-86-6)	TWA	3 mg/m <sup>3</sup>

#### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
TRIPHENYL PHOSPHATE (CAS 115-86-6)	STEL	6 mg/m <sup>3</sup>
	TWA	3 mg/m <sup>3</sup>

#### Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value
TRIPHENYL PHOSPHATE (CAS 115-86-6)	TWA	3 mg/m <sup>3</sup>

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** 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.

### Individual protection measures, for example personal protective equipment (PPE)

**Eye/face protection** Chemical respirator with organic vapor cartridge and full facepiece.

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Use of an impervious apron is recommended.

**Respiratory protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.



**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.

## Section 9: Physical and chemical properties

### Appearance

**Physical state** Liquid.

**Form** Liquid.

**Color** Off-white.

**Odor** Not available.

**Odor threshold** Not available.

**pH** Not available.

<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	474.8 °F (246.0 °C) ASTM D-92
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
Solubility (water)	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>Kinematic viscosity</b>	238 cSt
<b>Kinematic viscosity temp</b>	104 °F (40 °C)
<b>Other physical and chemical parameters</b>	
Density	0.88 g/cm <sup>3</sup>
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	7 % estimated
Pour point	-31 °F (-35 °C)
Shelf life	4 years
Specific gravity	1.19 estimated
VOC	7 % estimated

## Section 10: Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical 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

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

**Acute toxicity** Not known.

Components	Species	Test Results
TRIPHENYL PHOSPHATE (CAS 115-86-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	7900 mg/kg
<b>Oral</b>		
LD50	Rat	3500 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.	
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.	
<b>Respiratory irritation</b>	Not available.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>	Not available.	
<b>ACGIH Carcinogens</b>		
TRIPHENYL PHOSPHATE (CAS 115-86-6)	A4 Not classifiable as a human carcinogen.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Not listed.		
<b>Reproductive toxicity</b>	Suspected of damaging fertility or the unborn child.	
<b>Specific target organ toxicity - single exposure</b>	Not classified.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	Not an aspiration hazard.	
<b>Narcotic effects</b>	Due to lack of data the classification is not possible.	
<b>Chronic effects</b>	Prolonged inhalation may be harmful.	

## Section 12: Ecological information

<b>Ecotoxicity</b>	Harmful to aquatic life with long lasting effects.		
<b>Components</b>			
<b>Species</b>			
<b>Test Results</b>			
TRIPHENYL PHOSPHATE (CAS 115-86-6)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	>= 0.86 - <= 1.2 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	0.3, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of any ingredients in the mixture.		
<b>Bioaccumulative potential</b>	No data available for this product.		
<b>Mobility in soil</b>	No data available for this product.		
<b>Other adverse 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>Disposal methods</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.
<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>Special precautions to be taken during disposal</b>	Dispose in accordance with all applicable regulations.

Method of disposal that should not be used None known.

## Section 14: Transport information

### 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 established.

## Section 15: Regulatory information

### Applicable regulations

#### New Zealand Inventory of Chemicals (NZIoC): Registration status

1-DODECENE, POLYMER WITH 1-DECENE AND 1-OCTENE, HYDROGENATED (CAS 163149-28-8)	May be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right.
BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE (CAS 68411-46-1) POLYBUTENE (CAS 9003-29-6)	HSNO Approved
TRIPHENYL PHOSPHATE (CAS 115-86-6)	May be used as a single component chemical under an appropriate group standard HSNO Approved

## Section 16: Other information

Issue date August-04-2011

Revision date March-20-2023

Version # 05

Key abbreviations or acronyms used Not available.

**Disclaimer** Nye Lubricants, Inc. 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.