

# MATERIAL SAFETY DATA SHEET



## 1. Chemical product and company identification

**A. Product name** NYOGEL 774H

**Other means of identification**

**Product Code** NYOGEL 774H

**B. Recommended use and Limitations on use**

**Recommended use** Lubricating Grease

**C. Supplier information**

**Company name** Nye Lubricants, Inc.  
A Member of the FUCHS Group

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Fairhaven, MA 02179  
USA

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**Emergency telephone number** 080-880-0455

**Access code** 334212

**Website** www.nyelubricants.com

## 2. Hazards identification

**A. Hazard category/Classification**

**Physical hazards** Not classified.

**Health hazards** Not classified.

**Environmental hazards** Not classified.

**B. Warning label items including precautionary statement**

- **Pictogram** None.
- **Signal word** None.
- **Hazard statement** The mixture does not meet the criteria for classification.

• **Precautionary statement**

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)** None known.

**Supplemental information** None.

## 3. Composition/information on ingredients

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)
1-DECENE, HOMOPOLYMER, HYDROGENATED		68037-01-4	KE-09505	30 - 35
1-DODECENE POLYMER WITH 1-DECENE, HYDROGENATED		151006-60-9	97-3-581	30 - 35
BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE		68411-46-1	KE-28307	0.3 - 5
Other components below reportable levels				35 - 40

## 4. First aid measures

**A. In case of eye contact** Rinse with water. Get medical attention if irritation develops and persists.

<b>B. In case of skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>C. In case of inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>D. In case of swallowing</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>E. Note to physician</b>	Treat symptomatically.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>General advice</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

<b>A. Suitable (and unsuitable) extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>B. Specific hazards arising from the chemical (example: hazardous combustion products)</b>	During fire, gases hazardous to health may be formed.
<b>C. Specific methods of fire-fighting</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	Use water spray to cool unopened containers.
<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.

## 6. Accidental release measures

<b>A. Personal precautions, protective equipment and emergency measures</b>	Keep unnecessary personnel away. For personal protection, see section 8 of the MSDS.
<b>B. Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>C. Methods and materials for containment and cleaning up</b>	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 MSDS.

## 7. Handling and storage

<b>A. Precautions for safe handling</b>	Observe good industrial hygiene practices.
<b>B. Conditions for safe storage (including any incompatibilities)</b>	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the MSDS). Storage class (TRGS 510): 11 (Combustible solids that cannot be assigned to any of the above storage classes)

## 8. Exposure controls/personal protection

<b>A. Exposure limit values, biological limit values, etc</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>B. Appropriate engineering controls</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.
<b>C. Personal protective equipment</b>	
• <b>Respiratory protection</b>	KOSHA Certified respiratory protection not required. In case of insufficient ventilation, wear suitable KOSHA Certified respiratory equipment.
• <b>Eye protection</b>	Wear KOSHA Certified safety glasses with side shields (or goggles) .
• <b>Hand protection</b>	Wear appropriate KOSHA Certified chemical resistant gloves. Suitable KOSHA Certified gloves can be recommended by the glove supplier.
• <b>Body protection</b>	Wear suitable protective clothing.
<b>Hygiene measures</b>	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.

## 9. Physical and chemical properties

<b>A. Appearance</b>	Smooth
<b>Physical state</b>	Solid.
<b>Form</b>	Solid. Semi-solid
<b>Color</b>	Blue.
<b>B. Odor</b>	Not available.
<b>C. Odor threshold</b>	Not available.
<b>D. pH</b>	Not available.
<b>E. Melting point/freezing point</b>	Not available.
<b>F. Boiling point, initial boiling point, and boiling range</b>	Not available.
<b>G. Flash point</b>	Not available.
<b>H. Evaporation rate</b>	Not available.
<b>I. Flammability (solid, gas)</b>	Not available.
<b>J. Upper/lower limit on flammability or explosive limits</b>	
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>K. Vapor pressure</b>	Not available.
<b>L. Solubility</b>	
<b>Solubility (water)</b>	Not available.
<b>M. Vapor density</b>	Not available.
<b>N. Specific gravity</b>	Not available.
<b>O. n-octanol/water partition coefficient</b>	Not available.
<b>P. Auto-ignition temperature</b>	Not available.
<b>Q. Decomposition temperature</b>	Not available.
<b>R. Viscosity</b>	Not available.
<b>S. Molecular weight</b>	Not available.
<b>Other data</b>	
<b>Density</b>	0.82 g/cm <sup>3</sup>
<b>Dropping point</b>	>500 °F (>260 °C)
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.
<b>Shelf life</b>	4 years

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>A. Stability and hazardous reaction potential</b>	
<b>Stability</b>	Material is stable under normal conditions.
<b>Hazardous reaction potential</b>	No dangerous reaction known under conditions of normal use.
<b>B. Conditions to avoid (e.g. static discharge, shock or vibration, etc)</b>	Contact with incompatible materials.
<b>C. Incompatible materials</b>	Strong oxidizing agents.
<b>D. Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

<b>A. Information on likely routes of exposure</b>	
• <b>Respiratory organs</b>	No adverse effects due to inhalation are expected.
• <b>Skin</b>	No adverse effects due to skin contact are expected.
• <b>Eyes</b>	Direct contact with eyes may cause temporary irritation.
• <b>Mouth</b>	Expected to be a low ingestion hazard.

## B. Information on health hazards

• Acute toxicity (list all possible routes of exposure)	No data available.
• Corrosivity or irritation to the skin	Prolonged skin contact may cause temporary irritation.
• Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
• Respiratory sensitization	Not a respiratory sensitizer.
• Skin sensitization	This product is not expected to cause skin sensitization.
• Carcinogenic properties /Carcinogenicity	Not available.
• Mutagenic properties /Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
• Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
• Specific target organ toxicity - single exposure	Not classified.
• Specific target organ toxicity - repeated exposure	Not classified.
• Aspiration hazard	Not an aspiration hazard.

## 12. Ecological information

A. Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Hazardous to the aquatic environment, acute hazard	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
B. Persistence/degradability	No data is available on the degradability of any ingredients in the mixture.
C. Bioaccumulative potential	
D. Mobility in soil	No data available for this product.
E. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

A. Method of disposal	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
B. Disposal considerations (including disposal of contaminated containers or packaging)	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.
Waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

## 14. Transport information

### National regulations

#### KSSTDG

A. UN number	Not regulated as dangerous goods.
B. UN proper shipping name	Not regulated as dangerous goods.
C. Transport hazard class(es)	
Class	Not assigned.
Subsidiary hazard	-
D. Packing group	-
E. Environmental hazards	
Marine pollutant	No.
EmS	Not assigned.
F. Special precautions for user	Not assigned.

### International regulations

#### IATA

A. UN number	Not regulated as dangerous goods.
B. UN proper shipping name	Not regulated as dangerous goods.

**C. Transport hazard class(es)****Class** Not assigned.**Subsidiary hazard** -**D. Packing group** -**E. Environmental hazards** No.**F. Special precautions for user** Not assigned.**IMDG****A. UN number** Not regulated as dangerous goods.**B. UN proper shipping name** Not regulated as dangerous goods.**C. Transport hazard class(es)****Class** Not assigned.**Subsidiary hazard** -**D. Packing group** -**E. Environmental hazards****Marine pollutant** No.**EmS** Not assigned.**F. Special precautions for user** Not assigned.**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.**15. Regulatory information****A. Restrictions under the Industrial Safety and Health Law****Harmful Substances Prohibited from Manufacturing**

Not regulated.

**Harmful Substances Requiring Permission for Manufacture or Use**

Not regulated.

**Controlled Hazardous Substances**

Not regulated.

**Harmful Substances Requiring Special Medical Examination**

Not regulated.

**Workplace Environmental Monitoring Harmful Materials**

Not regulated.

**Occupational Exposure Limit**

Not regulated.

**B. Restrictions under the Chemicals Control Law (Previously Toxic Chemicals Control Law)****Accidental Release Prevention Substances**

Not regulated.

**Act on the Registration and Evaluation of Chemicals****Banned Toxic Chemicals**

Not regulated.

**Designated Existing Chemicals Subject to Registration (PEC) (MoE No. 2015-92)**

Not listed.

**Restricted Chemical Substances**

Not regulated.

**Toxic Chemicals**

Not regulated.

**C. Restrictions under the Dangerous Substance Safety Management Act****D. Restrictions under the Wastes Control Act****Halogenated Materials in Waste Organic Solvents**

Not regulated.

**Hazardous Substances**

Not regulated.

**E. Restrictions under other foreign or domestic laws****Clean Air Conservation Act****Air Pollutants**

Not regulated.

**Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides (Rules on PIC, MoE No. 2014-252, Dec. 31, 2014; Standards for Pesticides, RDA No. 2014-26), as amended**

Not listed.

**Specific Air Pollutants**

Not regulated.

**Further information**

This material safety data sheet was prepared in accordance with Ministry of Employment and Labor Notice No 2020-130.

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Korea	Existing Chemicals List (ECL)	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).

**16. Other information**

**A. Source of information**

ACGIH  
EPA: AQUIRE database  
Korea. Dangerous Substances Threshold Quantity (Presidential Decree of Dangerous Substances Safety Management Act No. 18406, Schedule 1)  
Korea. Regulated volatile organic compounds (VOCs) (MOE Notice No. 2001-36, March 8, 2001, as amended)  
NLM: Hazardous Substances Data Base  
US. IARC Monographs on Occupational Exposures to Chemical Agents  
Korea. GHS Labeling Requirements. Standards for Classification and Labeling of Chemical Substances and Material Safety Data Sheets (MSDS), as amended  
Korea. KOSHA GHS Classifications List (Korea Occupational Safety & Health Agency)  
Korea. NEMA GHS Classification List (National Emergency Management Agency GHS Guidance for Classification and Labeling for Dangerous Goods)  
Toxic Release Inventory (TRI) Chemicals (MOE Public Notice No. 2002-166, Nov. 8, 2002), as amended

**B. Issue date**

March-10-2011

**C. Number of revisions and date of most recent revision**

April-02-2025 (08 revision)

**D. Other**

Not available.

**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.