## MATERIAL SAFETY DATA SHEET



## 1. Chemical product and company identification

**NYOGEL 741F** A. Product name

Other means of identification

**Product Code** NYOGEL 741F B. Recommended use and Limitations on use

Recommended use **Lubricating Grease** 

C. Supplier information

Company name Nye Lubricants, Inc. **Address** 12 Howland Road Fairhaven MA 02719

**United States** 

General Assistance +1-508-996-6721 **Telephone** 

**Email** sds@nyelubricants.com Nye Lubricants EH&S

**Contact person** 

**Emergency telephone** 

3E Online +1-800-451-8346

number

## 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.

Wash hands after handling. Response

Store away from incompatible materials. **Storage** 

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

C. Other hazards not included in the hazard category criteria

None known.

(e.g. dust explosion hazard)

Supplemental information None.

## 3. Composition/information on ingredients

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)
DIPHENYLAMINE		122-39-4 KE-28303 <= 0.		<= 0.3
Other components below reportable levels				95 - 100

### 4. First aid measures

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

Wash off with soap and water. Get medical attention if irritation develops and persists. B. In case of skin contact

Move to fresh air. Call a physician if symptoms develop or persist. C. In case of inhalation

Rinse mouth. Get medical attention if symptoms occur. D. In case of swallowing

Treat symptomatically. E. Note to physician

Most important Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed

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Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

## 5. Fire-fighting measures

### A. Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

B. Specific hazards arising from the chemical (example: hazardous combustion

During fire, gases hazardous to health may be formed.

products)

C. Specific methods of fire-fighting

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

procedures

Use water spray to cool unopened containers.

No unusual fire or explosion hazards noted. General fire hazards

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

### 6. Accidental release measures

A. Personal precautions, protective equipment and emergency measures

Keep unnecessary personnel away. For personal protection, see section 8 of the MSDS.

B. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

C. Methods and materials for containment and cleaning up 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

A. Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

B. Conditions for safe storage (including any incompatibilities)

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

MSDS).

# 8. Exposure controls/personal protection

#### A. Exposure limit values, biological limit values, etc

Korea. OELs. Standards for Exposure to Chemical Substances and Physically Hazardous Factors

Components Type Value

DIPHENYLAMINE (CAS 122-39-4)

TWA

10 mg/m3

**US. ACGIH Threshold Limit Values** 

Components Type Value

DIPHENYLAMINE (CAS **TWA** 10 mg/m3 122-39-4)

**Biological limit values** 

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
DIPHENYLAMINE (CAS 122-39-4)	1.5 %	Methemoglobin	Hemoglobin in blood	*	

\* - For sampling details, please see the source document.

B. 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.

C. Personal protective equipment

 Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators. KOSHA Certified respiratory protection not required. In case of insufficient

ventilation, wear suitable KOSHA Certified respiratory equipment.

Wear KOSHA Certified safety glasses with side shields (or goggles) . Eye protection

Wear appropriate KOSHA Certified chemical resistant gloves. Suitable KOSHA Certified gloves Hand protection

can be recommended by the glove supplier.

 Body protection Wear suitable protective clothing.

Hygiene measures 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

Smooth A. Appearance Solid. Physical state

Solid. Semi-solid **Form** Color White Off-white. B. Odor Not available. C. Odor threshold Not available. D. pH Not available. Not available. E. Melting point/freezing point

F. Boiling point, initial boiling point, and boiling range

Not available.

G. Flash point Not available. H. Evaporation rate Not available. Not available. I. Flammability (solid, gas)

J. Upper/lower limit on flammability or explosive limits

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) K. Vapor pressure Not available.

L. Solubility

Not available. Solubility (water) M. Vapor density Not available. Not available. N. Specific gravity Not available. P. Auto-ignition temperature Q. Decomposition temperature Not available. R. Viscosity Not available. S. Molecular weight Not available.

Other data

1.01 g/cm3 Density **Explosive properties** Not explosive. Oxidizing properties Not oxidizing Shelf life 4 years

#### 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

A. Stability and hazardous reaction potential

Stability Material is stable under normal conditions.

**Hazardous reaction** 

potential

No dangerous reaction known under conditions of normal use.

B. Conditions to avoid (e.g. static discharge, shock or

vibration, etc)

Contact with incompatible materials.

C. Incompatible materials Strong oxidizing agents.

D. Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

### A. Information on likely routes of exposure

 Respiratory organs Prolonged inhalation may be harmful.

 Skin No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Eyes

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Expected to be a low ingestion hazard. Mouth

#### 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 · Specific target organ

toxicity - single exposure

This product is not expected to cause reproductive or developmental effects.

 Specific target organ toxicity - repeated

Not classified.

Not classified.

exposure 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

## Octanol/water partition coefficient log Kow

**DIPHENYLAMINE** 

3.5

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

### **IATA**

A. UN number Not applicable. B. UN proper shipping name Not applicable.

C. Transport hazard class(es)

Not applicable. Class

Subsidiary risk

D. Packing group Not applicable.

E. Environmental hazards

F. Special precautions for

Not applicable.

user

**IMDG** 

A. UN number Not applicable. B. UN proper shipping name Not applicable.

C. Transport hazard class(es)

Not applicable. Class

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Subsidiary risk

**D. Packing group** Not applicable.

E. Environmental hazards

Marine pollutant No.

EmS Not applicable.

F. Special precautions for Not applicable.

user

Transport in bulk according to Annex II of MARPOL 73/78 and

ccording to Not applicable.

the IBC Code

## 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**

**DIPHENYLAMINE (CAS 122-39-4)** 

#### 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)

DIPHENYLAMINE (CAS 122-39-4)

#### **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 2016-19.

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

KECI, January 27, 2015, amended through MoE 2016-138, July 13, 2016

Korea. Banned Chemicals (AREC "K-REACH" Article 27; Designation of Restricted or Banned

Chemicals, Appendices 4 and 5)

Korea. Dangerous Substances Threshold Quantity (Presidential Decree of Dangerous Substances

Safety Management Act No. 18406, Schedule 1)

Korea. Existing Chemicals Inventory (KECI, January 27, 2015)

Korea. Harmful Substances Prohibited from Manufacturing (Presidential Decree on the Industrial

Safety and Health Act (No. 13053), Article 29)

Korea. Harmful Substances Requiring Permission for Manufacture or Use (Presidential Decree on

the Industrial Safety and Health Act (No. 13053), Article 30)

Korea. OELs. Regulation for Permitted Concentration of Hazardous Substances (Ministry of Labor

(MOL) Public Notice No. 1986-45, as amended)

Korea. Prohibited Chemical Substances (AREC "K-REACH" Article 27; Designation of Toxic,

Restricted or Banned Chemicals Appendices 4 and 5)

Korea. Regulated volatile organic compounds (VOCs) (MOE Notice No. 2001-36, March 8, 2001,

as amended)

Korea. Restricted Chemical Substances (AREC "K-REACH" Article 27; Designation of Toxic,

Restricted or Banned Chemicals Appendices 2 and 3)

Korea. Restricted Chemicals (AREC "K-REACH" Article 27; Designation of Restricted or Banned

Chemicals, Appendices 2 and 3)

Korea. Toxic Chemicals (AREC "K-REACH" Article 20; Designation of Toxic Chemicals, Appendix) Korea. Toxic Chemicals (AREC "K-REACH" Article 20; Designation of Toxic, Restricted or Banned

Chemicals Appendix 1)

Korea. Toxic Chemical Control Law (TCCL), pre-1997 List

Korea. Toxic Release Inventory (TRI) Chemicals (MOE Public Notice No. 2002-166, Nov. 8, 2002)

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

B. Issue date March-01-2011

C. Number of revisions and date of most recent revision

May-14-2024 (10 revision)

D Other

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.