

NYOGEL 774F-MS

According to EC Directive 2001/58/EC

1. Chemical and company identification

Name of chemical (Product

NYOGEL 774F-MS

name)

Supplier's company name, address and phone number Company name Nye Lubricants, Inc.

Address 12 Howland Road

Fairhaven, MA 02719 United States

Contact person Nye Lubricants EH&S

Telephone General Assistance +1-508-996-6721

e-mail address sds@nyelubricants.com

3E Online **Emergency telephone number** +1-800-451-8346

Product Code NYOGEL 774F-MS

Recommended use of the chemical and restrictions on use

Intended use **Lubricating Grease**

2. Hazards identification

GHS classification

The product is not classified according to GHS.

GHS label elements

Pictograms None. Signal words 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.

Store away from incompatible materials. Storage

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

Other hazards which do not

result in classification

None known.

Supplemental information None. Main symptoms and emergency overview

> Direct contact with eyes may cause temporary irritation. Main symptoms

3. Composition/information on ingredients

Substance or mixture Mixture

	Gazette notification				
Chemical name or generic name	CAS Number	ENCS no.	ISHL no.	Concentration (%)	
1-Decene, homopolymer, hydrogenated	68037-01-4	(6)-1109	(6)-1109, 9-2375, 9-3416	15 - 20	
1-DODECENE POLYMER WITH 1-DECENE, HYDROGENATED	151006-60-9			15 - 20	
1-DODECENE, POLYMER WITH 1-DECENE AND 1-OCTENE, HYDROGENATED	163149-28-8			10 - 20	
MOLYBDENUM DISULFIDE	1317-33-5	1-481	(1)-481	5 - 10	
SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE	112945-52-5	(1)-548	(1)-548	5 - 10	
ALKYLATED DIPHENYLAMINE	Trade Secret			<= 1	
Other components below reportable levels				30 - 35	

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Chemical formula H[(C8H16)x(C10H20)y(C12H24)z]nH (163149-28-8), O2Si (112945-52-5), Mo-S2 (1317-33-5)

4. First aid measures

If inhaled Move to fresh air. Call a physician if symptoms develop or persist.

If on skin Wash off with soap and water. Get medical attention if irritation develops and persists.

If in eyes Rinse with water. Get medical attention if irritation develops and persists.

If swallowedRinse mouth. Get medical attention if symptoms occur.Most importantDirect contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed
Protection of first-aid

responders

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

protect themselves.

Notes to physician Treat symptomatically.

5. Fire-fighting measures

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

Extinguishing media to avoid Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards During fire, gases hazardous to health may be formed.

Special fire fighting

procedures

Use water spray to cool unopened containers.

Protection of fire-fightersSelf-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards No unusual fire or explosion hazards noted.

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Environmental precautions

Liivii Oiliileiitai precautions

Methods and materials for containment and cleaning up

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

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.

7. Handling and storage

Handling

Technical measures (e.g.

Local and general ventilation)

No specific recommendations.

Safe handling advice

Contact avoidance

measures

Observe good industrial hygiene practices.

Strong oxidizing agents. For further information, please refer to section 10 of the SDS.

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.

Storage

Safe storage conditions Store away from incompatible materials (see Section 10 of the SDS).

Safe packaging materials Store in original tightly closed container.

8. Exposure controls/personal protection

Control parameters Follow standard monitoring procedures.

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Occupational exposure limits

Japan. OELs - ISHL. (Workplace Environment Assessment Standards)
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Components	Туре	, Value	Form	
SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE (CAS 112945-52-5)	TLV	0.025 mg/m3	Dust.	

Japan. OELs - JSOH (Japan Society of Occupational Health: Recommendation of Occupational Exposure Limits)

Components	Туре	Value	Form
SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE (CAS 112945-52-5)	TWA	4 mg/m3	Total dust.
		1 mg/m3	Respirable dust.
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
MOLYBDENUM DISULFIDE (CAS	TWA	3 mg/m3	Respirable fraction.

10 mg/m3 Inhalable fraction.

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.

Personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Wear appropriate chemical resistant gloves.

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

Skin and body protection Wear suitable protective clothing.



1317-33-5)

Engineering measures



9. Physical and chemical properties

Physical stateSolid.FormSolid.

Color Not available.
Odor Not available.

Melting point/freezing point 4307 °F (2375 °C) estimated Boiling point, initial boiling point, and boiling range 4307 °F (2375 °C) estimated

Combustibility Not available.

Lower and upper explosion limit / flammability limit

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Flash point > 392.0 °F (> 200.0 °C) ASTM D-92

Auto-ignition temperatureNot available.Decomposition temperatureNot available.pHNot available.

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Kinematic viscosity

Not available.

Solubility(ies)

Not available. Solubility (water) Not available. Partition coefficient

(n-octanol/water) (log value)

Vapor pressure 0.00001 hPa estimated

Density and/or relative density

0.93 g/cm³ **Density** Not available. Relative density Not available. Vapor density Not available. **Particle characteristics**

Other information

Not explosive. **Explosive properties Oxidizing properties** Not oxidizing. Shelf life 4 years

Specific gravity 3.83 estimated

10. Stability and reactivity

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

Material is stable under normal conditions. **Chemical stability**

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Acute toxicity 28.44% of the mixture consists of component(s) of unknown acute dermal toxicity. 28.44% of the

mixture consists of component(s) of unknown acute oral toxicity.

Components **Species Test Results**

MOLYBDENUM DISULFIDE (CAS 1317-33-5)

Acute Inhalation

LC50 Rat 2820 mg/l/4h

SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE (CAS 112945-52-5)

Acute Oral

LD50 Rat > 5000 mg/kg

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

Not a respiratory sensitizer. Respiratory sensitization

This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity

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IARC Monographs. Overall Evaluation of Carcinogenicity

SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE

3 Not classifiable as to carcinogenicity to humans.

(CAS 112945-52-5)

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

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.

Persistence and degradability

Bioaccumulation

No data is available on the degradability of any ingredients in the mixture.

Mobility in soil No data available for this product.

Hazardous to the ozone layer

Other hazardous 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

Residual waste 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).

No data available.

Contaminated 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.

Local disposal regulations Contract with a disposal operator licensed by the Law on Disposal and Cleaning. When your own

wastewater treatment plant is not available, collect entire waste and then charge to a licensed

industrial waste management professional with manifests for industrial waste.

14. Transport information

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

National regulations Follow regulation in section 15 for domestic transportation.

15. Regulatory information

Industrial Safety and Health Act

Notifiable substances

MOLYBDENUM AND MOLYBDENUM COMPOUNDS Table 9 Ordinance No. 603 5.0 - 10 %

Labeling substances

MOLYBDENUM AND MOLYBDENUM COMPOUNDS 5.0 - 10 %

Poisonous and Deleterious Substances Control Act

Specified poisonous substances

Not regulated.

Poisonous substances

Not regulated.

Deleterious substances

Not regulated.

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Act on the Regulation of Manufacture and Evaluation of Chemical Substances

Class I specified chemical substances

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Reporting Exempted Substances

Silicon dioxide

Law concerning Pollutant Release and Transfer Register

Specified class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 1 substances (substance name, ordinance number and content)

MOLYBDENUM AND ITS COMPOUNDS (AS Ordinance No. 453 6.0 %

(MOLYBDENUM DISULFIDE)

MO)

Class 2 substances (substance name, ordinance number and content)

Not regulated.

Ship Safety Law, Dangerous

Goods Marine Transport and

Storage Rule

Air Law, Enforcement Rule

Not regulated.

Not regulated.

Explosives Control Act

Not regulated.

16. Other information

Bibliography ACGIH Documer

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity

Japan Chemical Industry Association (JCIA) GHS Guideline, June 2019

Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits JIS Z 7252:2019 Classification of chemicals based on "Globally Harmonized System of

Classification and Labelling of Chemicals (GHS)"

JIS Z 7253:2019 Hazard communication of chemicals based on GHS - Labelling and Safety Data

Sheet (SDS)

National Toxicology Program (NTP) Report on Carcinogens

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.

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