

# SAFETY DATA SHEET



## SECTION 1. Identification of the hazardous chemical substance or mixture and of the supplier or manufacturer

**Name of the hazardous chemical substance or mixture** NYOGEL 744F-MS

**Other means of identification**  
**Product Code** NYOGEL 744F-MS

**Recommended use of the hazardous chemical substance or mixture, and restrictions of use**  
**Recommended use** Lubricating Grease  
**Recommended restrictions** None known.

**Suppliers details**  
**Company name** Nye Lubricants, Inc.  
A Member of the FUCHS Group  
**Address** 12 Howland Road  
Fairhaven, MA 02179  
USA  
**Telephone** +1 508 996 6721  
**E-mail** sds@fuchs.com

**Emergency telephone number** +52 55 41696225  
**Access code** 334212  
**Website** www.nyelubricants.com

## SECTION 2. Hazard identification

**Classification of the substance or mixture**  
**Physical hazards** Not classified.  
**Health hazards** Sensitization, skin Category 1

**Elements of labeling, including precautionary statements and warning pictograms**



**Signal word** Warning

**Hazard statement**  
H317 May cause an allergic skin reaction.

**Precautionary statement**  
**Prevention**  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.

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

**Storage** Store away from incompatible materials.

**Disposal**  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards which do not result in classification** None known.  
**Supplemental information** None.

### SECTION 3. Composition/information on ingredients

#### Mixtures

Chemical identity	Common name(s), synonym(s)	CAS number and other unique identifiers	Concentration
MOLYBDENUM DISULFIDE		1317-33-5	3 - < 5
2,5-FURANDIONE, DIHYDRO-3-(OCTADECENYL) -		28777-98-2	< 1
PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFINIC		64742-54-7	< 1
Other components below reportable levels			90 - 100

### 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>	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/effects, acute and delayed</b>	May cause an allergic skin reaction. Dermatitis. Rash.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### SECTION 5. Fire-fighting measures

<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 actions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Use water spray to cool unopened containers.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

### SECTION 6. Measures that must be taken in the event of accidental spillage or an accidental leak

#### Personal precautionary measures, protective equipment and emergency procedure

<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 discharge into drains, water courses or onto the ground.
<b>Methods and materials for containing and cleaning up spills or releases</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 SDS.

## SECTION 7. Handling and storage

**Precautions for safe handling** Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## SECTION 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

##### Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control)

Components	Type	Value	Form
MOLYBDENUM DISULFIDE (CAS 1317-33-5)	TWA	3 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.

##### US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value	Form
MOLYBDENUM DISULFIDE (CAS 1317-33-5)	TWA	3 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.
PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFINIC (CAS 64742-54-7)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

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

**Control banding approach** Not available.

**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, such as personal protective equipment (PPE)

**Eye/face protection** Wear safety glasses with side shields (or goggles). Face shield is recommended.

#### Skin protection

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

**Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

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

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



#### General hygiene considerations

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>	Gray Black
<b>Odor</b>	Not available.

<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<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>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>Viscosity</b>	Not available.
<b>Molecular weight</b>	Not available.
<b>Other information</b>	
<b>Density</b>	0.99 g/cm <sup>3</sup>
<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>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 that must be avoided</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

<b>Information about likely routes of entry</b>	
<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	May cause an allergic skin reaction.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	May cause an allergic skin reaction. Dermatitis. Rash.
<b>Delayed and immediate effects and also chronic effects from short and long term exposure</b>	
<b>Numerical measures of toxicity (such as acute toxicity estimates)</b>	
<b>Acute toxicity</b>	

Components	Species	Test Results
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
<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 or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
<b>Skin sensitization</b>	May cause an allergic skin reaction.	
<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 classifiable as to carcinogenicity to humans.	
<b>ACGIH Carcinogens</b>		
MOLYBDENUM DISULFIDE (CAS 1317-33-5)	A3 Confirmed animal carcinogen with unknown relevance to humans.	
PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFINIC (CAS 64742-54-7)	A4 Not classifiable as a human carcinogen.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFINIC (CAS 64742-54-7)	3 Not classifiable as to carcinogenicity to humans.	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<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>Other information</b>	Not available.	

## SECTION 12. Ecotoxicological information

<b>Toxicity</b>	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 and degradability</b>	No data is available on the degradability of any ingredients in the mixture.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	No data available.
<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>	
<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</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.

## SECTION 14. Transport information

### SCT

Not regulated as dangerous goods.

### DOT

Not regulated as dangerous goods.

### ADR

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

### ADN

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

**Safety, health and environmental regulations specific for the hazard chemical substance or mixture in question** This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2015).

**Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)**

Not listed.

### International regulations

#### Montreal Protocol

Not applicable.

#### Stockholm Convention

Not applicable.

#### Rotterdam Convention

Not applicable.

#### Kyoto protocol

Not applicable.

#### Basel Convention

Not applicable.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	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).

## SECTION 16. Other included information relevant to the preparation and updating of safety data sheets

**Issue date** February-04-2014  
**Revision date** September-10-2024  
**Version #** 05

### List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists.  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.  
ANTT: National Agency of Land Transport.  
CAS: Chemical Abstract Service.  
DOT: Department of Transportation.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IARC: International Agency for Research on Cancer.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
NFPA: National Fire Protection Association.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
SCT: Secretariat of Communications and Transportation (NOM-002-SCT/2011).  
STEL: Short term exposure limit.  
TWA: Time Weighted Average.

### References

NMX-R-019-SCFI-2011 - Harmonized system of classification and communication of dangers of chemical products  
NOM-010-STPS-2014 (second revision) – Occupational Exposure Limits – becomes effective on April 28, 2016  
NOM-018-STPS-2015 - Harmonized system for the identification and communication of hazards and risks for hazardous chemicals in the workplace  
NOM-026-STPS-2008 - Colors and signals of safety and hygiene, and risk identification through fluids in pipes  
NOM-028-STPS-2012 – Work-Safety Management System for Processes and Critical Equipment Handling Hazardous Chemical Substances  
NOM-047-SSA1-2011 – Workplace Biological Exposure Indices (BEIs) to Chemical Substances Workplace Threshold Quantities of Hazardous Chemicals

### HMIS® ratings

Health: 2  
Flammability: 0  
Physical hazard: 0

### NFPA ratings

Health: 2  
Flammability: 0  
Instability: 0

### 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**

SECTION 2. Hazard identification: Other hazards which do not result in classification  
Composition / Information on Ingredients: Ingredients  
SECTION 6. Measures that must be taken in the event of accidental spillage or an accidental leak:  
For non-emergency personnel  
SECTION 8. Exposure controls/personal protection: Eye/face protection  
SECTION 15. Regulatory information: International regulations  
SECTION 16. Other included information relevant to the preparation and updating of safety data  
sheets: References  
SECTION 16. Other included information relevant to the preparation and updating of safety data  
sheets: List of abbreviations