

CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.

Product name: NYOGEL 774VLF-MS

Issue date: June-28-2011
 Revision date: February-20-2023
 Version #: 05
 SDS No: NYOGEL 774VLF-MS

SECTION 1 Chemical product and company identification

English name of chemical NYOGEL 774VLF-MS
Product Code NYOGEL 774VLF-MS
Manufacturer/Supplier Nye Lubricants, Inc.
Address 12 Howland Road
 Fairhaven, MA 02719
 United States
Contact person Nye Lubricants EH&S
Telephone General Assistance 508-996-6721
e-mail sds@nyelubricants.com
Emergency telephone number 3E Online 800-451-8346

Recommended use and Limitations on use

Recommended use Lubricating Grease
Issue date June-28-2011
Revision date February-20-2023
Supersedes date September-10-2014

SECTION 2 Hazards identification

Emergency overview Possible reproductive hazard.

GHS hazard categories

Physical hazards Not classified.
Health hazards Reproductive toxicity Category 2
Environmental hazards Not classified.

Label elements

Pictograms



Signal word Warning

Hazard statement

H361 Suspected of damaging fertility or the unborn child.

Precautionary statement

Prevention

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Safety storage

P405 Store locked up.

Disposal

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

Physical and chemical hazards The product is stable and non-reactive under normal conditions of use, storage and transport. No unusual fire or explosion hazards noted.

Health hazards Expected to be a low ingestion hazard. Direct contact with eyes may cause temporary irritation.

| | |
|---------------------------------|--|
| Environmental hazards | 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. |
| Supplemental information | None. |

SECTION 3 Composition/information on ingredients

| | | |
|--|--------------------------|-------------------|
| Substance/mixture | Mixture | |
| Chemical name | Concentration (%) | CAS Number |
| 二氧化硅, 无定形, FUMED, CRYSTAL-FREE SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE | 3 - < 5 | 112945-52-5 |
| 烷基化二苯胺 ALKYLATED DIPHENYLAMINE | < 1 | Trade Secret |
| Other components below reportable levels | 90 - 100 | |

SECTION 4 First aid measures

| | |
|---|---|
| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Skin contact | Wash off with soap and water. Get medical attention if irritation develops and persists. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms and health effects | Direct contact with eyes may cause temporary irritation. |
| Personal protection for first-aid responders | 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. |
| Notes to physician | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. |

SECTION 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 | Move containers from fire area if you can do so without risk. |
| Protection of fire-fighters | Self-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 methods | Use standard firefighting procedures and consider the hazards of other involved materials. |

SECTION 6 Accidental release measures

| | |
|--|--|
| Personal precautions, protective equipment and emergency procedures | |
| For non-emergency personnel | Wear appropriate protective equipment and clothing during clean-up. |
| For emergency responders | 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. |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |
| Clean-up methods and materials and containment measures | 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. |
| Prevention of secondary hazards | Not available. |

SECTION 7 Handling and storage

| | |
|-----------------|--|
| Handling | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Observe good industrial hygiene practices. |
|-----------------|--|

Storage

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

Exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Monitoring methods

Follow standard monitoring procedures.

Engineering measures

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**

Chemical respirator with organic vapor cartridge and full facepiece.

Hand protection

Wear appropriate chemical resistant gloves.

Eye protection

Chemical respirator with organic vapor cartridge and full facepiece.

Skin and body protection

Use of an impervious apron is recommended.

**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

Black

Odor

Not available.

pH

Not available.

Melting point/freezing point

Not available.

Boiling point, initial boiling point, and boiling range

Not available.

Flash point

> 392.0 °F (> 200.0 °C) ASTM D-92

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Relative density

Not available.

Density

0.92 g/cm³

Solubility(ies)**Solubility (water)**

Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Flammability (solid, gas)

Not applicable.

Other data**Explosive properties**

Not explosive.

Oxidizing properties

Not oxidizing.

Shelf life

4 years

Specific gravity

2.86 estimated

SECTION 10 Stability and reactivity

| | |
|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

SECTION 11 Toxicological information

| | | |
|--|--|------------------|
| Acute toxicity | | |
| Product | Species | Test Results |
| NYOGEL 774VLF-MS | | |
| <u>Acute</u> | | |
| Oral | | |
| LD50 | Rat | 2.554e+006 mg/kg |
| Components | Species | Test Results |
| SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE (CAS 112945-52-5) | | |
| <u>Acute</u> | | |
| Oral | | |
| LD50 | Rat | 3160 mg/kg |
| Routes of exposure | Not available. | |
| Symptoms | Direct contact with eyes may cause temporary irritation. | |
| 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 | | |
| Respiratory sensitization | Not a respiratory sensitizer. | |
| Skin sensitizer | This product is not expected to cause skin sensitization. | |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. | |
| Carcinogenicity | | |
| IARC Monographs. Overall Evaluation of Carcinogenicity | | |
| SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE (CAS 112945-52-5) | 3 Not classifiable as to carcinogenicity to humans. | |
| Toxic to reproduction | Suspected of damaging fertility or the unborn child. | |
| Specific target organ toxicity following single exposure | Not classified. | |
| Specific target organ toxicity following repeated exposure | Not classified. | |
| Aspiration hazard | Not an aspiration hazard. | |
| Chronic effects | Not available. | |

SECTION 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 | No data is available on the degradability of any ingredients in the mixture. |
| Bioaccumulation | No data available. |
| Mobility in soil | No data available for this product. |
| 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. |

SECTION 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). |
| 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 | 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. |

SECTION 14 Transport information**CNDG**

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 established.

SECTION 15 Regulatory information**Law of the People's Republic of China on Prevention and Control of Occupational Diseases**

Not regulated.

Regulations on the Control over Safety of Dangerous Chemicals

Not regulated.

Provision on the Environmental Administration of New Chemical Substances**China Inventory of Existing Chemical Substances**

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| China | Inventory of Existing Chemical Substances in China (IECSC) | 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).

Other regulations

This safety data sheet conforms to the following laws, regulations and standards:
Measures for the Safe Use of Chemicals in Workplaces
General Rules for Preparation of Precautionary Labels for Chemicals (GB15258-2009)
Regulations on Labor Protection in Workplaces Where Toxic Products Are Used
Packing Symbol of Dangerous Goods(GB190-2009)
Regulations on the Control over Safety of Dangerous Chemicals
Safety Data Sheet for Chemical Products - Content and Order of Sections (GB/T 16483-2008)
Packing - Pictorial Marking for Handling of Goods (GB/T191-2009)

China. National Catalogue of Hazardous Wastes

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

International regulations**Stockholm Convention**

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

SECTION 16 Other information**References**

EPA: AQUIRE database
GB6944-2012: Classification and Code of Dangerous Goods.
GB12268-2012: List of Dangerous Goods.
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents

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.