CHEMICAL PRODUCT SAFETY DATA SHEET



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

Product name: RHEOLUBE 748D Issue date: August-09-2011

Revision date: February-03-2023

Version #: 05

SDS No: Rheolube 748D

SECTION 1 Chemical product and company identification

English name of chemical RHEOLUBE 748D
Product Code Rheolube 748D

Manufacturer/Supplier Nye Lubricants, Inc.
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 3E Online 800-451-8346

number

Recommended use and Limitations on use

Recommended use Lubricating Grease
Issue date August-09-2011
Revision date February-03-2023
Supersedes date February-07-2020

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.

SDS No: Rheolube 748D

Health hazards Prolonged inhalation may be harmful. Expected to be a low ingestion hazard. Direct contact with

eyes may cause temporary irritation.

The product is not classified as environmentally hazardous. However, this does not exclude the **Environmental hazards**

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Supplemental information

SECTION 3 Composition/information on ingredients

Substance/mixture Mixture Chemical name	Concentration (%)	CAS Number
烷基化二苯胺 ALKYLATED DIPHENYLAMINE	< 1	Trade Secret
磷酸三苯脂 TRIPHENYL PHOSPHATE	< 0.2	115-86-6
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. Direct contact with eyes may cause temporary irritation. Most important symptoms and

attendance.

health effects

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

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 Special fire fighting During fire, gases hazardous to health may be formed.

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.

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

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.

Product name: RHEOLUBE 748D

Revision date: February-03-2023

SDS No: Rheolube 748D

SECTION 7 Handling and storage

Handling Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Avoid prolonged exposure. 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

Flash point

Physical state Liquid.
Form Liquid.

Color Not available.

Odor Not available.

pH Not available.

Melting point/freezing point Not available.

Boiling point, initial boiling Not available.

point, and boiling range

467.6 °F (242.0 °C) ASTM D-92

Explosive limit - lower (%)

Explosive limit - upper (%)

Vapor pressure

Vapor density

Relative density

Density

Not available.

Not available.

Not available.

Not available.

Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Flammability (solid, gas) Not applicable.

SDS No: Rheolube 748D

Other data

Explosive properties Not explosive. 30000 cSt Kinematic viscosity Kinematic viscosity temp 104 °F (40 °C) Oxidizing properties Not oxidizing 73.12 % estimated Percent volatile

Shelf life 4 years 1.2 estimated Specific gravity VOC 73.01 % 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 Not known.

Components **Test Results Species**

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

Acute Oral

LD50

3160 mg/kg Rat

TRIPHENYL PHOSPHATE (CAS 115-86-6)

Acute

Dermal

LD50 Rabbit 7900 mg/kg

Oral

LD50 Rat 3500 mg/kg

Routes of exposure Inhalation.

Symptoms Direct contact with eyes may cause temporary irritation. Prolonged skin contact may cause temporary irritation. Skin corrosion/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 3 Not classifiable as to carcinogenicity to humans.

(CAS 112945-52-5)

Suspected of damaging fertility or the unborn child. Toxic to reproduction

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 Prolonged inhalation may be harmful.

SDS No: Rheolube 748D

SECTION 12 Ecological information

Ecotoxicological data

Components Species Test Results

TRIPHENYL PHOSPHATE (CAS 115-86-6)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia magna) >= 0.86 - <= 1.2 mg/l, 48 hours

Fish LC50 Rainbow trout, donaldson trout 0.3, 96 hours

(Oncorhynchus mykiss)

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

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

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

Bioaccumulation

Mobility in soil No data available for this product.

Other hazardous effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

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 regulationsCollect 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

Not established.

the IBC Code

SECTION 15 Regulatory information

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Classification of occupational disease hazards

PHOSPHORUS AND ITS COMPOUNDS (PHOSPHINE, ZINC PHOSPHIDE, ALUMINUM PHOSPHIDE, AND ORGANIC PHOSPHORUS ARE LISTED SEPARATELY) (CAS 115-86-6)

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 regionInventory nameOn inventory (yes/no)*ChinaInventory of Existing Chemical Substances in ChinaYes

(IECSC)

*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).

Product name: RHEOLUBE 748D

Revision date: February-03-2023

SDS No: Rheolube 748D

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.