

CHEMICAL PRODUCT SAFETY DATA SHEET

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

Product name: RHEOLUBE 789DMF

Issue date: May-18-2011 Revision date: February-22-2023 Version #: 05 SDS No: RHEOLUBE 789DMF

		ntification	
English name of chemical	RHEOLUBE 789DMF		
Product Code	RHEOLUBE 789DMF		
Manufacturer/Supplier Address	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 number	3E Online	800-451-8346	
Recommended use and Limita	tions on use		
Recommended use	Lubricating Grease		
ssue date	May-18-2011		
Revision date	February-22-2023		
Supersedes date	September-22-2014		
SECTION 2 Hazards ide	ntification		
Emergency overview	Possible reproductive haza	rd. Dangerous for	the environment if discharged into watercourses.
GHS hazard categories			
Physical hazards	Not classified.		
Health hazards	Reproductive toxicity		Category 2
Environmental hazards	Hazardous to the aquatic e hazard	nvironment, acute	Category 3
	Hazardous to the aquatic e long-term hazard	nvironment,	Category 3
_abel elements			
Pictograms			
Signal word	Warning		
Hazard statement			
H361	Suspected of damaging fer	tility or the unborn	child.
H402	Harmful to aquatic life.	long looting offer-t-	
H412	Harmful to aquatic life with	iong lasting effects	5.
Precautionary statement Prevention			
Prevention P201	Obtain special instructions	before use	
P201 P202			e been read and understood.
P273	Avoid release to the enviro	nment.	
P280	Wear protective gloves/pro	tective clothing/eye	e protection/face protection.
Response			
P308 + P313	IF exposed or concerned: (Jet medical advice	vatiention.
Safety storage	Otore la she l		
P405	Store locked up.		

SECTION 3 Composition/information on ingredients		
Supplemental information	None.	
Environmental hazards	Harmful to aquatic life with long lasting effects.	
Health hazards	Prolonged inhalation may be harmful. Expected to be a low ingestion hazard. Direct contact with eyes may cause temporary irritation.	
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.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Disposal		

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	< 1	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.
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 m	neasures

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 release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.	

Clean-up methods and materials and containment measures	Prevent product from entering drains. 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.		
Prevention of secondary hazards			
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. Avoid release to the environment. 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 cor	ntrols/personal protection		
Exposure limits			
No exposure limits noted for i	ngredient(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

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Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Tan
Odor	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	618.8 °F (326.0 °C) ASTM D-92
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.

Boostivity	The product is stable and non-reactive under normal conditions of use, storage and transport
SECTION 10 Stability an	d reactivity
VOC	0.00000002 % estimated
Specific gravity	1.82 estimated
Shelf life	4 years
Percent volatile	0.1 % estimated
Oxidizing properties	Not oxidizing.
Explosive properties	Not explosive.
Other data	
Flammability (solid, gas)	Not applicable.
Decomposition temperature	Not available.
Auto-ignition temperature	Not available.
Partition coefficient (n-octanol/water)	Not available.
Solubility (water)	Not available.
Solubility(ies)	
Density	1.05 g/cm ³
Relative density	Not available.

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.	
Product	Species	Test Results
RHEOLUBE 789DMF		
Acute		
Oral		
LD50	Rat	884200 mg/kg
Components	Species	Test Results
TRIPHENYL PHOSPHATE (CAS	6 115-86-6)	
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.	
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 sensitizati	on	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitizer	This product is not expected to	o 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	Not available.	
Toxic to reproduction	Suspected of damaging fertilit	y 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	Prolonged inhalation may be harmful.

Ecotoxicological data				
Components		Species	Test Results	
TRIPHENYL PHOSPHATE (CAS	5 115-86-6)			
Aquatic				
Acute				
Crustacea	EC50	Water flea (Daphnia magna)	>= 0.86 - <= 1.2 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.3, 96 hours	
Ecotoxicity	Harmful to aquatic life with long lasting effects.			
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.			
Bioaccumulation				
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 co	nsideratio	ons		
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. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.			

SECTION 14 Transport information

CNDG

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

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 region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
	promonents of this product comply with the inventory requirements administered more components of the product are not listed or exempt from listing on the inv	
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)	
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 inform	nation	

References EPA: AQUIRE database

References	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.