



CHEMICAL PRODUCT SAFETY DATA SHEET

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

Product name: RHEOLUBE 734A-MS

Issue date: August-31-2011
Revision date: January-25-2024
Version #: 06
SDS No: RHEOLUBE 734A-MS

SECTION 1 Chemical product and company identification

English name of chemical	RHEOLUBE 734A-MS		
Product Code	RHEOLUBE 734A-MS		
Manufacturer/Supplier	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	sds@nyelubricants.com		
Emergency telephone number	3E Online	+1-800-451-8346	

Recommended use and Limitations on use

Recommended use	Lubricating Grease
Issue date	August-31-2011
Revision date	January-25-2024
Supersedes date	January-30-2023

SECTION 2 Hazards identification

Emergency overview	Dangerous for the environment if discharged into watercourses.
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GHS hazard categories

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Hazardous to the aquatic environment, acute Category 3 hazard

Label elements

Pictograms	None.
Signal word	None.

Hazard statement

H402	Harmful to aquatic life.
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Precautionary statement

Prevention	
P273	Avoid release to the environment.
Response	Wash hands after handling.
Safety storage	Store away from incompatible materials.
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.
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Health hazards	Prolonged inhalation may be harmful. Expected to be a low ingestion hazard. Direct contact with eyes may cause temporary irritation.
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Environmental hazards	Harmful to aquatic life.
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Supplemental information	None.
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SECTION 3 Composition/information on ingredients

Substance/mixture	Mixture
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Chemical name	Concentration (%)	CAS Number
二硫化钼 MOLYBDENUM DISULFIDE	5 - < 10	1317-33-5
N-甲基-N-[(9Z)-1-氧代-9-十八烯基]甘氨酸 Glycine, N-methyl-N-[(9Z)-1-oxo-9-octadecenyl]-	< 0.3	110-25-8
N-1-萘苯胺 N-1-naphthylaniline	< 0.3	90-30-2
亚硝酸钠 SODIUM NITRITE	< 0.3	7632-00-0
Other components below reportable levels	90 - 100	

SECTION 4 First aid measures

Inhalation	Move to fresh air.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Get medical attention if irritation develops or 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	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Notes to physician	Treat symptomatically.

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	Use water spray to cool unopened containers.
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.
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Clean-up methods and materials and containment measures	Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. 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. Clean up spills immediately, observing precautions in Protective Equipment section. Sweep up and shovel into suitable containers for disposal.
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Prevention of secondary hazards	Not available.
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SECTION 7 Handling and storage

Handling	Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Storage	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8 Exposure controls/personal protection**Exposure limits**

China OELs. Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents (GBZ 2.1-2007)

Components	Type	Value
MOLYBDENUM DISULFIDE (CAS 1317-33-5)	PC-TWA	6 mg/m ³

Biological limit values

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

Exposure guidelines

This material does not have established exposure limits. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter

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**

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.

**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.

SECTION 9 Physical and chemical properties

Appearance	Smooth
Physical state	Solid.
Form	Solid. Semi-solid
Color	Gray Black
Odor	Slight
pH	Not available.
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Density	0.94 g/cm ³
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 available.
Other data	
Explosive properties	Not explosive.

Oxidizing properties	Not oxidizing.
Shelf life	4 years

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 acids, alkalies and oxidizing agents.
Hazardous decomposition products	Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of sulfur.

SECTION 11 Toxicological information

Acute toxicity	Not known.
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Components	Species	Test Results
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MOLYBDENUM DISULFIDE (CAS 1317-33-5)

Acute**Dermal**

LD50	Rat	2500 mg/kg
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Oral

LD50	Rat	3200 mg/kg
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N-1-naphthylaniline (CAS 90-30-2)

Acute**Oral**

LD50	Rat	1625 mg/kg
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SODIUM NITRITE (CAS 7632-00-0)

Acute**Inhalation**

LC50	Rat	5.5 mg/l, 4 Hours
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Routes of exposure	Inhalation.
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Symptoms	Direct contact with eyes may cause temporary irritation.
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Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
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Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
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Respiratory or skin sensitization

Respiratory sensitization	Not a respiratory sensitizer.
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Skin sensitizer	This product is not expected to cause skin sensitization.
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Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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Carcinogenicity**IARC Monographs. Overall Evaluation of Carcinogenicity**

SODIUM NITRITE (CAS 7632-00-0)	2A Probably carcinogenic to humans.
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Toxic to reproduction	This product is not expected to cause reproductive or developmental effects.
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Specific target organ toxicity following single exposure	Not classified.
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Specific target organ toxicity following repeated exposure	Not classified.
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Aspiration hazard	Not an aspiration hazard.
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Chronic effects	Hazardous by OSHA criteria. Prolonged inhalation may be harmful.
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SECTION 12 Ecological information

Ecotoxicity	Harmful to aquatic life.
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Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
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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 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. 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.

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****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**Catalog of Hazardous Chemicals**

sodium nitrite (CAS 7632-00-0)

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)

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.