CHEMICAL PRODUCT SAFETY DATA SHEET

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



Product name: RHEOTEMP 700 Issue date: December-06-2022

Revision date: June-11-2025

Version #: 04 SDS No: RHEOTEMP 700

SECTION 1 Chemical product and company identification

RHEOTEMP 700 Product Name RHEOTEMP 700 Product Code Nye Lubricants, Inc. Company name

A Member of the FUCHS Group

Address 12 Howland Road

Fairhaven, MA 02179

Country

Telephone +1 508 996 6721 sds@fuchs.com E-mail +86 4001 2001 74 **Emergency telephone**

number

334212 Access code

Website www.nyelubricants.com

Recommended use and Limitations on use

Recommended use **Lubricating Grease** December-06-2022 Issue date June-11-2025 **Revision date** Supersedes date September-26-2024

SECTION 2 Hazards identification

Emergency overview May cause damage to organs through prolonged or repeated exposure. Causes mild skin irritation.

May cause an allergic skin reaction. Possible reproductive hazard. Dangerous for the environment

if discharged into watercourses.

GHS hazard categories

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 3

> Sensitization, skin Category 1 Reproductive toxicity (fertility, the unborn Category 2

child)

Specific target organ toxicity, repeated Category 2 (adrenal gland)

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 3

Hazardous to the aquatic environment, Category 1

long-term hazard

Label elements

Pictograms



Signal word Warning

Hazard statement

Causes mild skin irritation. H316

May cause an allergic skin reaction. H317 Suspected of damaging the unborn child. H361

Suspected of damaging fertility. H361

May cause damage to organs (adrenal gland) through prolonged or repeated exposure. H373

Harmful to aquatic life. H402

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Precautionary statement

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H410

Obtain special instructions before use. P201 Do not handle until all safety precautions have been read and understood. P202

Do not breathe dust/fume/gas/mist/vapors/spray. P260

Contaminated work clothing should not be allowed out of the workplace. P272

Very toxic to aquatic life with long lasting effects.

Avoid release to the environment. P273

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF ON SKIN: Wash with plenty of soap and water. P302 + P352 IF exposed or concerned: Get medical advice/attention. P308 + P313 If skin irritation or rash occurs: Get medical advice/attention. P333 + P313 Take off contaminated clothing and wash it before reuse. P362 + P364

Collect spillage. P391

Safety storage

Store locked up. P405

Disposal

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

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 Prolonged inhalation may be harmful. Causes mild skin irritation. May cause an allergic skin

reaction. Expected to be a low ingestion hazard. Direct contact with eyes may cause temporary

irritation.

Environmental hazards

Very toxic to aquatic life with long lasting effects.

Other hazards This product contains components considered to have endocrine disrupting properties for

environment, according to REACH Article 57(f), Regulation (EU) 2018/605 or Regulation (EU)

2017/2100.

Supplemental information None.

SECTION 3 Composition/information on ingredients

Substance/mixture Mixture		
Chemical name	Concentration (%)	CAS Number
氨基二硫代酸二丁酯 CARBAMODITHIOIC ACID, DIBUTYL-, METHYLENE ESTER	3 - < 5	10254-57-6
异丙基化苯酚磷酸酯(3:1) PHENOL, ISOPROPYLATED, PHOSPHATE (3:1)	3 - < 5	68937-41-7
妥尔油脂肪酸与硼酸(H3BO3)和二乙醇胺的反应产物 FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH BORIC ACID (H3BO3) AND DIETHANOLAMINE	1 - < 3	91770-03-5
二壬基萘磺酸钡 NAPHTHALENESULFONIC ACID, DINONYL-, BARIUM SALT	1 - < 3	25619-56-1
1H-苯三唑-1-甲烷胺, N,N-双(2-乙基己基)-ar-甲基- 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-	<1	94270-86-7
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 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.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important symptoms and

health effects

Mild skin irritation. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may

cause chronic 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

attendance. Wash contaminated clothing before reuse.

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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

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 methodsUse 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

Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing

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 entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush area

with water.

Not available.

Small Spills: 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

SECTION 7 Handling and storage

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

and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. 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).

Storage class (TRGS 510): 11 (Combustible solids that cannot be assigned to any of the above

storage classes)

SECTION 8 Exposure controls/personal protection

Exposure limits

Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents (GBZ 2.1-2019)

Components Type Value

NAPHTHALENESULFONIC ACID, DINONYL-, BARIUM PC-STEL 1.5 mg/m3 SALT (CAS 25619-56-1)

PC-TWA 0.5 mg/m3

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Monitoring methods Follow standard monitoring procedures.

Engineering measuresGood 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

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.

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Hand protection Wear appropriate chemical resistant gloves.

Eye protection If contact is likely, safety glasses with side shields are recommended.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Skin and body protection







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. Contaminated work clothing should not be allowed out of the workplace.

SECTION 9 Physical and chemical properties

Smooth **Appearance** Physical state Solid.

> Solid. Semi-solid Form

Color Tan.

Not available. Odor Not available. pН Not available. Melting point/freezing point Not available. Boiling point, initial boiling

point, and boiling range

Not available. Flash point **Explosive limit - lower (%)** Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available Vapor density Not available. Not available. Relative density 0.86 g/cm³ Density

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Not available. **Decomposition temperature** Not available. Flammability (solid, gas)

Other data

Dropping point 392 °F (200 °C) **Explosive properties** Not explosive. Oxidizing properties Not oxidizing **Shelf life** 4 years

SECTION 10 Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. Stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

No hazardous decomposition products are known.

products

SECTION 11 Toxicological information

Acute toxicity

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Components Species Test Results

1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- (CAS 94270-86-7)

<u>Acute</u>

Dermal

LD50 Rat > 2000 mg/kg

Oral

LD50 Rat 3313 mg/kg

PHENOL, ISOPROPYLATED, PHOSPHATE (3:1) (CAS 68937-41-7)

<u>Acute</u>

Inhalation

LC50 Rat 50 mg/l/4h

Oral

LD50 Rat 30000 mg/kg

Routes of exposure Inhalation. Skin contact. Eye contact.

Symptoms Mild skin irritation. May cause an allergic skin reaction. Dermatitis. Rash.

Skin corrosion/irritation Causes mild skin 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 May cause an allergic skin reaction.

Germ cell mutagenicityNo 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 fertility. Suspected of damaging the unborn child.

Specific target organ toxicity following single exposure

Not classified.

Specific target organ toxicity following repeated exposure

May cause damage to organs (adrenal gland) through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. May cause damage to organs through prolonged or

repeated exposure.

SECTION 12 Ecological information

Ecotoxicity Very toxic 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 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

UN number UN3077

Revision date: June-11-2025 SDS No: RHEOTEMP 700

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PHENOL,

ISOPROPYLATED, PHOSPHATE (3:1))

Transport hazard class(es)

Class 9
Subsidiary hazard Packing group III
Environmental hazards Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number UN3077

UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (PHENOL, ISOPROPYLATED, PHOSPHATE

(3:1)

Transport hazard class(es)

Class 9
Subsidiary hazard Packing group III
Environmental hazards Yes
ERG Code 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PHENOL,

ISOPROPYLATED, PHOSPHATE (3:1)), MARINE POLLUTANT (PHENOL, ISOPROPYLATED,

PHOSPHATE (3:1), 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-)

Transport hazard class(es)

Class 9
Subsidiary hazard Packing group III
Environmental hazards

Marine pollutant Yes EmS F-A, S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

CNDG; IATA; IMDG



Marine pollutant



General information IMDG Regulated Marine Pollutant.

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SECTION 15 Regulatory information

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

Classification of occupational disease hazards

Barium and its compounds (CAS 25619-56-1)

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)

*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).

SPECIAL CASE

Not applicable.

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/T191-2008)

China. National Catalogue of Hazardous Wastes

NAPHTHALENESULFONIC ACID, DINONYL-, BARIUM SALT (CAS 25619-56-1)

Regulatory information

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

SECTION 16 Other information

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

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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.

Product and Company Identification: Product and Company Identification **Revision information**

SECTION 2 Hazards identification: Environmental hazards

SECTION 2 Hazards identification: Other hazards

Composition / Information on Ingredients: Disclosure Overrides

SECTION 12 Ecological information: Ecotoxicity Transport Information: Hazreg Values Transportation

GHS: Classification

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