# CHEMICAL PRODUCT SAFETY DATA SHEET

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



Product name: FUCHS TIM GREASE 413AN Issue date: April-03-2025

Revision date: May-23-2025

Version #: 03 SDS No: 9097

## SECTION 1 Chemical product and company identification

Product Name FUCHS TIM GREASE 413AN

Company name Nye Lubricants, Inc.

A Member of the FUCHS Group

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**Country** USA

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number

Access code 334212

Website www.nyelubricants.com

Recommended use and Limitations on use

Recommended use Thermal Grease
Issue date April-03-2025
Revision date May-23-2025
Supersedes date April-08-2025

### **SECTION 2 Hazards identification**

**Emergency overview** Causes serious eye irritation. Causes skin irritation. May cause irritation to the respiratory system.

Dangerous for the environment if discharged into watercourses.

**GHS** hazard categories

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Ca

long-term hazard

Category 2

Label elements

**Pictograms** 



Signal word Warning

**Hazard statement** 

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear eye protection/face protection.

P280 Wear protective gloves.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Safety storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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 May cause irritation to the respiratory system. Prolonged inhalation may be harmful. Causes skin

irritation. Expected to be a low ingestion hazard. Causes serious eye irritation.

**Environmental hazards**Toxic to aquatic life with long lasting effects.

Supplemental information None.

## SECTION 3 Composition/information on ingredients

Substance/mixture	Mixture		
Chemical name		Concentration (%)	<b>CAS Number</b>
氮化铝 ALUMINUM NITRIDE		60 - < 70	24304-00-5
氧化锌 ZINC OXIDE		10 - < 20	1314-13-2
癸酸、庚酸、异壬酸、辛酸和季戊四醇的混合四酯DECANOIC ACID, MIXED TETRAESTERS WITH HEPTANOIC ACID, ISONONANOIC ACID, OCTANOIC ACID AND PENTAERYTHRITOL		3 - < 5	118685-24-8
云母 MICA		3 - < 5	12001-26-2
Other components below reportable levels		10 - < 20	

# SECTION 4 First aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

center or doctor/physician if you feel unwell.

**Skin contact** Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms and

health effects

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.

Personal protection for first-aid

responders

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.

**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.

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

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

personnel

Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in

Section 8 of the SDS.

**Environmental precautions** 

For emergency responders

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.

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

Not available

### SECTION 7 Handling and storage

Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate Handling

ventilation. Wear appropriate personal protective equipment. Avoid release to the environment.

Observe good industrial hygiene practices.

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Storage

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 Hazardou	ıs Agents (GBZ 2.1-2019)
Components	Туре	Value	Form

MICA (CAS 12001-26-2)	PC-TWA	2 mg/m3	Total dust.
		1.5 mg/m3	Respirable dust.
ZINC OXIDE (CAS 1314-13-2)	PC-STEL	5 mg/m3	
	PC-TWA	3 mg/m3	

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

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. Provide eyewash station and safety shower.

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 appropriate chemical resistant 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** 

Physical state Solid.

Form Solid. Semi-solid

Color Grey.

Odor Not available.

pH Not available.

Melting point/freezing point Not available.

Boiling point, initial boiling Not available.

point, and boiling range

Flash point

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Vapor pressure

Vapor density

Relative density

Density

Not available.

Not available.

Not available.

Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

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 5 years

Specific gravity 2.6

## 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 available.

Routes of exposure Inhalation. Skin contact. Eye contact.

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye 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 Not available.

**Toxic to reproduction**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity following single exposure

May cause respiratory irritation.

Specific target organ toxicity following repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

# SECTION 12 Ecological information

**Ecotoxicity** 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** 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. 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

UN proper shipping name Transport hazard class(es) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)

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. (ZINC OXIDE)

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. (ZINC OXIDE), MARINE

POLLUTANT (ZINC OXIDE)

Transport hazard class(es)

Class 9

Subsidiary hazard Ш Packing group

**Environmental hazards** 

Marine pollutant Yes **EmS** F-A. S-F

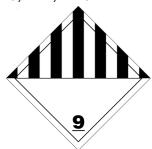
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

CNDG; IATA; IMDG



#### Marine pollutant



IMDG Regulated Marine Pollutant. **General information** 

# SECTION 15 Regulatory information

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

## Classification of occupational disease hazards

Mica dust (CAS 12001-26-2) Zinc oxide (CAS 1314-13-2)

### 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 Yes

(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.

This safety data sheet conforms to the following laws, regulations and standards: Other regulations

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

ZINC OXIDE (CAS 1314-13-2)

#### 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

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

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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.

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