SAFETY DATA SHEET



1. Identification

Product identifier FUCHS TIM LGF 2021NS PART B

Other means of identification None.

Recommended use Thermal Conductive Gap Filler

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name

Nye Lubricants, Inc.

A Member of the FUCHS Group

Address 12 Howland Road

Fairhaven, MA 02719

USA

 Telephone
 +1 508 996 6721

 E-mail
 sds@fuchs.com

Emergency telephone

+1 866 519 4752

number

Access code 334212

Website www.nyelubricants.com

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Reproductive toxicity Category 1B

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May damage fertility or the unborn child.

Precautionary statement

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

and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response If exposed or concerned: Get medical advice/attention.

Storage Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
ALUMINIUM OXIDE		1344-28-1	40 - < 50
SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE		112945-52-5	10 - < 20
ZINC OXIDE		1314-13-2	10 - < 20

Material name: FUCHS TIM LGF 2021NS PART B

Chemical name	Common name and synonyms	CAS number	%
DIBUTYLBIS(PENTANE-2,4-DIO TO-O,O')TIN	NA	22673-19-4	< 1
BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE		68411-46-1	< 0.2
Other components below reportal	ole levels		10 - < 20

4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eve 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/effects, acute and

delaved

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice **General information** (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.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Alcohol resistant foam. Powder. Carbon dioxide (CO2).

During fire, gases hazardous to health may be formed.

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Move containers from fire area if you can do so without risk.

Fire fighting equipment/instructions

Specific methods General fire hazards

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

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Prevent entry into waterways, sewer, basements or confined areas.

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. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Storage class (TRGS 510): 10 (Combustible liquids that cannot be assigned to any of the above storage classes)

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	rposure Limits (PEL) for Air Type	Value	Form
ALUMINIUM OXIDE (CAS 344-28-1)	PEL	5 mg/m3	Respirable fraction.
•		15 mg/m3	Total dust.
DIBUTYLBIS(PENTANE-2, -DIONATO-O,O')TIN (CAS 2673-19-4)	PEL	0.1 mg/m3	
ZINC OXIDE (CAS 314-13-2)	PEL	5 mg/m3	Fume.
		5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
IS. OSHA Table Z-3 Permissible Ex components	oposure Limits (PEL) for Min Type	eral Dusts (29 CFR 1910.1000 Value) Form
LUMINIUM OXIDE (CAS 344-28-1)	TWA	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE CAS 112945-52-5)	TWA	5 mg/m3	Respirable fraction.
ŕ		15 mg/m3	Total dust.
		0.8 mg/m3	
INC OXIDE (CAS 314-13-2)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
IS. ACGIH Threshold Limit Values Components	(TLV) Type	Value	Form
DIBUTYLBIS(PENTANE-2, 4-DIONATO-O,O')TIN (CAS 22673-19-4)	STEL	0.2 mg/m3	
7010 OVIDE (0.40	TWA	0.1 mg/m3	5 ·
ZINC OXIDE (CAS 314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
IIOSH. Immediately Dangerous to components	Life or Health (IDLH) Values, Type	as amended Value	
DIBUTYLBIS(PENTANE-2, I-DIONATO-O,O')TIN (CAS 22673-19-4)	IDLH	25 mg/m3	
SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE CAS 112945-52-5)	IDLH	3000 mg/m3	

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NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Components Type Value

ZINC OXIDE (CAS IDLH 500 mg/m3

1314-13-2)

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

Form Components Value Type DIBUTYLBIS(PENTANE-2. TWA 0.1 mg/m3 4-DIONATO-O,O')TIN (CAS 22673-19-4) SILICA, AMORPHOUS, **TWA** 6 mg/m3 FUMED, CRYSTAL-FREE (CAS 112945-52-5) ZINC OXIDE (CAS Ceiling 15 mg/m3 Dust. 1314-13-2) **STEL** Fume. 10 mg/m3

> 5 mg/m3 No biological exposure limits noted for the ingredient(s).

Biological limit values Exposure guidelines

US - California OELs: Skin designation

DIBUTYLBIS(PENTANE-2,4-DIONATO-O,O')TIN Can be absorbed through the skin.

TWA

(CAS 22673-19-4)

US - Minnesota Haz Subs: Skin designation applies

DIBUTYLBIS(PENTANE-2,4-DIONATO-O,O')TIN Skin designation applies.

(CAS 22673-19-4)

US - Tennessee OELs: Skin designation

DIBUTYLBIS(PENTANE-2,4-DIONATO-O,O')TIN Can be absorbed through the skin.

(CAS 22673-19-4)

US ACGIH Threshold Limit Values: Skin designation

DIBUTYLBIS(PENTANE-2,4-DIONATO-O,O')TIN Danger of cutaneous absorption

(CAS 22673-19-4)

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

DIBUTYLBIS(PENTANE-2,4-DIONATO-O,O')TIN Can be absorbed through the skin.

(CAS 22673-19-4)

Appropriate engineering

controls

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.

Fume.

Dust.

5 mg/m3

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.







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General hygiene considerations

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.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Liquid. Semi-solid

Color Green.

Odor Not available.
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

Specific gravity 2.7

10. Stability and reactivity

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

Chemical 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 Acids. Chlorine.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

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Test Results Components **Species**

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

Oral

LD50 Rat > 5000 mg/kg

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 sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

3 Not classifiable as to carcinogenicity to humans. SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE

(CAS 112945-52-5)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

May damage fertility or the unborn child. Reproductive toxicity

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

Not classified.

repeated exposure **Aspiration hazard**

Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

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

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

Persistence and degradability

Bioaccumulative potential

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

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions**

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

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

UN number UN3082 **UN** proper shipping name Environmentally hazardous substance, liquid, n.o.s. (ZINC OXIDE)

Transport hazard class(es)

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

Other information

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

Passenger and cargo

aircraft

Allowed with restrictions.

Not established.

Allowed with restrictions. Cargo aircraft only

IMDG

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE), MARINE

POLLUTANT (ZINC OXIDE, DIPHENYLAMINE)

Transport hazard class(es)

9 Subsidiary hazard Ш Packing group

Environmental hazards

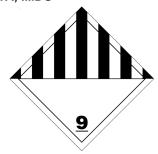
Marine pollutant Yes **EmS** F-A. S-F

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

the IBC Code

IATA; IMDG



Marine pollutant



General information IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ZINC OXIDE (CAS 1314-13-2)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Reproductive toxicity Classified hazard

categories

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Aluminum oxide (fibrous forms) (Alumina)	1344-28-1	40 - < 50	
Zinc Compounds	1314-13-2	10 - < 20	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

California Proposition 65



WARNING: This product can expose you to chemicals including CADMIUM, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go

to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

CADMIUM (CAS ---) Listed: October 1, 1987 DI-"ISONONYL" PHTHALATE (CAS 28553-12-0) Listed: December 20, 2013 LEAD (CAS ---) Listed: October 1, 1992

California Proposition 65 - CRT: Listed date/Developmental toxin

Listed: May 1, 1997 CADMIUM (CAS ---)

California Proposition 65 - CRT: Listed date/Male reproductive toxin

CADMIUM (CAS ---) Listed: May 1, 1997

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	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).

16. Other information, including date of preparation or last revision

Issue dateFebruary-26-2025Revision dateApril-11-2025

Version # 02

Disclaimer Nye Lubricants, Inc. A Member of the FUCHS Group 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 Product and Company Identification: Product and Company Identification

Fire-fighting measures: Fire fighting equipment/instructions

Accidental release measures: Methods and materials for containment and cleaning up

Handling and storage: Precautions for safe handling

Handling and storage: Conditions for safe storage, including any incompatibilities

Exposure controls/personal protection: Exposure guidelines Exposure controls/personal protection: Eye/face protection Exposure controls/personal protection: Respiratory protection

Exposure controls/personal protection: PPE Symbols

Physical and chemical properties: Form

Physical and chemical properties: Flammability (solid, gas)

Toxicological information: Chronic effects Toxicological information: Inhalation

Material name: FUCHS TIM LGF 2021NS PART B

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