# SAFETY DATA SHEET



## 1. Identification

Product identifier	FUCHS TIM LGF 2020NS PART B	
Other means of identification	None.	
Recommended use	Thermal Conductive Gap Filler	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplie	r/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 number	+1 866 519 4752	
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 and understood. Wear protective gloves/prote	handle until all safety precautions have been read ctive clothing/eye protection/face protection.
Response	If exposed or concerned: Get medical advice/a	attention.
Storage	Store locked up.	
Disposal	Dispose of contents/container in accordance v	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

Chemical name	Common name and synonyms	CAS number	%
DIBUTYLBIS(PENTANE-2,4-DI TO-O,O')TIN	ONA	22673-19-4	< 1
BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE		68411-46-1	< 0.2
Other components below report	able levels		10 - < 20
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	s develop or persist.	
Skin contact	Wash off with soap and water. Get medical at	tention if irritation develops an	d persists.
Eye contact	Rinse with water. Get medical attention if irrita	ation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptor		
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary	y irritation.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.		
General information	IF exposed or concerned: Get medical advice (show the label where possible). Ensure that involved, and take precautions to protect then attendance.	medical personnel are aware c	f the material(s)
5. Fire-fighting measures			
Suitable extinguishing media	Alcohol resistant foam. Powder. Carbon dioxid	de (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as thi	is will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
Fire fighting equipment/instructions	Move containers from fire area if you can do s	so without risk.	
Specific methods	Use standard firefighting procedures and cons	sider the hazards of other invo	lved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release mea	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep per appropriate protective equipment and clothing authorities should be advised if significant spil see section 8 of the SDS.	during clean-up. Ensure adec	uate ventilation. Local
Methods and materials for	Prevent entry into waterways, sewer, baseme	nts or confined areas.	
containment and cleaning up	Large Spills: Stop the flow of material, if this is possible. Absorb in vermiculite, dry sand or earecovery, flush area with water.		
	Small Spills: Wipe up with absorbent material remove residual contamination.	(e.g. cloth, fleece). Clean surfa	ace thoroughly to
Environmental precautions	Never return spills to original containers for re Avoid discharge into drains, water courses or		section 13 of the SDS.
7. Handling and storage	J	5	
	Obtain energial instructions before use. Do not	handle until all safety process	ions have been read
Precautions for safe handling	Obtain special instructions before use. Do not and understood. Pregnant or breastfeeding w handled in closed systems, if possible. Provid protective equipment. Observe good industria	omen must not handle this pro e adequate ventilation. Wear a	duct. Should be

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	xposure Limits (PEL) for Air Type	Value	Form
ALUMINIUM OXIDE (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
DIBUTYLBIS(PENTANE-2, 4-DIONATO-O,O')TIN (CAS 22673-19-4)	PEL	0.1 mg/m3	
ZINC OXIDE (CAS 1314-13-2)	PEL	5 mg/m3	Fume.
		5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 Permissible E		-	
Components	Туре	Value	Form
ALUMINIUM OXIDE (CAS 1344-28-1)	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.
·		15 mg/m3	Total dust.
		0.8 mg/m3	
ZINC OXIDE (CAS 1314-13-2)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Values	(TLV)		
Components	Туре	Value	Form
DIBUTYLBIS(PENTANE-2, 4-DIONATO-O,O')TIN (CAS 22673-19-4)	STEL	0.2 mg/m3	
	TWA	0.1 mg/m3	
ZINC OXIDE (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
NIOSH. Immediately Dangerous to	Life or Health (IDLH) Values,	as amended	
Components	Туре	Value	
DIBUTYLBIS(PENTANE-2, 4-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	

ZINC OXIDE (CAS	IDLH		500 mg/m3	
1314-13-2)			500 mg/mo	
US. NIOSH: Pocket Guide to Components	Chemical Hazards Recomr Type	mended Exposure Lir	nits (REL) Value	Form
DIBUTYLBIS(PENTANE-2, 4-DIONATO-O,O')TIN (CAS 22673-19-4)	TWA		0.1 mg/m3	
SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE (CAS 112945-52-5)	TWA		6 mg/m3	
ZINC OXIDE (CAS 1314-13-2)	Ceiling		15 mg/m3	Dust.
	STEL		10 mg/m3	Fume.
	TWA		5 mg/m3	Fume.
			5 mg/m3	Dust.
logical limit values	No biological exposure limit	s noted for the ingredie	ent(s).	
posure guidelines	Occupational Exposure Lim	its are not relevant to t	he current physic	al form of the product.
US - California OELs: Skin d	lesignation			
DIBUTYLBIS(PENTANE- (CAS 22673-19-4)		Can be absorbed	hrough the skin.	
US - Minnesota Haz Subs: S	• •	<b>.</b>		
DIBUTYLBIS(PENTANE- (CAS 22673-19-4)		Skin designation a	pplies.	
US - Tennessee OELs: Skin DIBUTYLBIS(PENTANE- (CAS 22673-19-4)	-	Can be absorbed	hrough the skin.	
US ACGIH Threshold Limit	/alues: Skin designation			
DIBUTYLBIS(PENTANE- (CAS 22673-19-4)		Danger of cutaned	us absorption	
US NIOSH Pocket Guide to		-		
DIBUTYLBIS(PENTANE- (CAS 22673-19-4)	2,4-DIONATO-O,O')TIN	Can be absorbed	hrough the skin.	
propriate engineering htrols	Good general ventilation sh applicable, use process end maintain airborne levels bel established, maintain airbor	closures, local exhaust ow recommended exp	ventilation, or oth osure limits. If exp	er engineering controls to
ividual protection measures, Eye/face protection	such as personal protective Chemical respirator with org		nd full facepiece.	
Skin protection Hand protection	Wear appropriate chemical	resistant gloves.		
Other	Use of an impervious apron	is recommended.		
Respiratory protection	Chemical respirator with or	ganic vapor cartridge a	nd full facepiece.	
Thermal hazards	Wear appropriate thermal p	rotective clothina. whe	n necessarv.	
Thermal hazards	Wear appropriate thermal p	rotective clothing, whe	n necessary.	

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	Yellow.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive 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 (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	2.7

## 10. Stability and reactivity

_	-
Reactivity	The 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	No adverse effects due to inhalation are expected.
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

Components	Species	Test Results	
SILICA, AMORPHOUS, FUMED,	CRYSTAL-FREE (CAS 11294	5-52-5)	
<u>Acute</u>			
<b>Oral</b> LD50	Rat	> 5000 mg//rg	
		> 5000 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may		
Serious eye damage/eye irritation	Direct contact with eyes ma	y cause temporary irritation.	
Respiratory or skin sensitization	n		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected	to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate mutagenic or genotoxic.	e product or any components present at greater than 0.1% are	
Carcinogenicity	Not classifiable as to carcin	ogenicity to humans.	
IARC Monographs. Overall	Evaluation of Carcinogenici	ty	
(CAS 112945-52-5)	FUMED, CRYSTAL-FREE	3 Not classifiable as to carcinogenicity to humans.	
OSHA Specifically Regulate Not listed.	a Substances (29 CFR 1910	.1001-1053)	
US. National Toxicology Pro	ogram (NTP) Report on Card	inogens	
Not listed.	<b>5</b> ( ) <b>1</b>		
Reproductive toxicity	May damage fertility or the	unborn child.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
12. Ecological information	n		
Ecotoxicity		as environmentally hazardous. However, this does not exclude the uent spills can have a harmful or damaging effect on the environment.	
Persistence and degradability	No data is available on the	degradability of any ingredients in the mixture.	
Bioaccumulative potential			
Mobility in soil	No data available.		
Other adverse effects		ental effects (e.g. ozone depletion, photochemical ozone creation on, global warming potential) are expected from this component.	
13. Disposal consideratio	ns		
Disposal instructions		ese in sealed containers at licensed waste disposal site. Dispose of dance with local/regional/national/international regulations.	
Local disposal regulations	Dispose in accordance with all applicable regulations.		
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste 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).		
Contaminated packaging		ay retain product residue, follow label warnings even after container is should be taken to an approved waste handling site for recycling or	
14. Transport information			

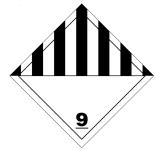
Not regulated as dangerous goods.

#### ΙΑΤΑ

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

Transport hazard class(es)	
Class	9
Subsidiary hazard	-
Packing group	
Environmental hazards	Yes
ERG Code	9L
Special precautions for user Other information	Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
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)	
Class	9
Subsidiary hazard	-
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	Not established.

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 **Classified hazard** Reproductive toxicity categories SARA 313 (TRI reporting) **Chemical name** CAS number % by wt. Aluminum oxide (fibrous forms) (Alumina) 40 - < 50 1344-28-1 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 On inventory (yes/no)\* Country(s) or region Inventory name 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 Yes Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No Inventory of Existing and New Chemical Substances (ENCS) No Japan Korea Existing Chemicals List (ECL) No New Zealand New Zealand Inventory Yes Philippines Philippine Inventory of Chemicals and Chemical Substances No (PICCS) 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 date	March-06-2025
Revision date	April-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: Conditions for safe storage, including any incompatibilities 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)