SAFETY DATA SHEET



1. Identification

Product identifier	FUCHS TIM GREASE 4100
Other means of identification	None.
Recommended use	Thermal Grease
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 number	+1 866 519 4752
Access code	334212
Website	www.nyelubricants.com
2. Hazard(s) identification	
Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	

OSHA defined hazards	Not classified.		
Label elements			
Hazard symbol	None.		
Signal word	None.		
Hazard statement	The mixture does not meet the criteria for clas	ssification.	
Precautionary statement			
Prevention	Observe good industrial hygiene practices.		
Response	Wash hands after handling.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of waste and residues in accordance with local authority requirements.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		
3. Composition/informa	tion on ingredients		
Vixtures			
Mixtures Chemical name	Common name and synonyms	CAS number	%
	Common name and synonyms	CAS number 7429-90-5	<mark>%</mark> 80 - < 90
Chemical name	Common name and synonyms		
Chemical name ALUMINIUM		7429-90-5	80 - < 90
Chemical name ALUMINIUM ZINC OXIDE		7429-90-5	80 - < 90 3 - < 5
Chemical name ALUMINIUM ZINC OXIDE Other components below rep 4. First-aid measures		7429-90-5 1314-13-2	80 - < 90 3 - < 5
ALUMINIUM ZINC OXIDE Other components below rep	portable levels	7429-90-5 1314-13-2 is develop or persist.	80 - < 90 3 - < 5 10 - < 20

Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Powder. Dry sand.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this 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 so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved 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. 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. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	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)

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	le Exposure Limits (PEL) for Air Type	Contaminants (29 CFR 1910.1 Value	l000) Form
ALUMINIUM (CAS 7429-90-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
ZINC OXIDE (CAS 1314-13-2)	PEL	5 mg/m3	Respirable fraction.
		5 mg/m3	Fume.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 Permissib	le Exposure Limits (PEL) for Min	eral Dusts (29 CFR 1910.1000))
Components	Туре	Value	Form
ALUMINIUM (CAS 7429-90-5)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

Components	issible Exposure Limits (PEL) for Mineral Type	Value	, Form
		15 mppcf	Respirable fraction.
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 Lim	it Values (TLV)		
Components	Туре	Value	Form
ALUMINIUM (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
ZINC OXIDE (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
	erous to Life or Health (IDLH) Values, as a	amended	
Components	Туре	Value	
ZINC OXIDE (CAS	IDLH	500 mg/m3	
1314-13-2)	to Chemical Hazards Recommended Exp	osure Limits (RFL)	
Components		Value	Form
ALUMINIUM (CAS	TWA	5 mg/m3	Respirable.
7429-90-5)		2 · · · g. · · · 2	
		5 mg/m3	Welding fume or pyrophoric powder.
		10 mg/m3	Total
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 limits noted for the	ne ingredient(s).	
propriate engineering trols	Good general ventilation should be used applicable, use process enclosures, loca maintain airborne levels below recomme established, maintain airborne levels to a	al exhaust ventilation, or oth ended exposure limits. If exp	er engineering controls to
vidual protection measure Eye/face protection	s, such as personal protective equipment Wear safety glasses with side shields (o		
Skin protection			
Hand protection	Wear appropriate chemical resistant glov	ves.	
Other	Wear suitable protective clothing.		
Respiratory protection	In case of insufficient ventilation, wear su	uitable respiratory equipmer	nt.
Thermal hazards	Wear appropriate thermal protective clot	hing, when necessary.	
neral hygiene siderations	Always observe good personal hygiene and before eating, drinking, and/or smok equipment to remove contaminants.		

9. Physical and chemical properties

Appearance

Physical state	Solid.
Form	Solid. Semi-solid
Color	Grey.
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 available.
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.
Shelf life	5 years
Specific gravity	2.2

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	Strong oxidizing agents.
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 Not available.				

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	1
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	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 classifiable as to carcinogenicity to humans.
Not listed. OSHA Specifically Regulate Not listed.	Evaluation of Carcinogenicity d Substances (29 CFR 1910.1001-1053)
Not listed.	ogram (NTP) Report on Carcinogens
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.
12. Ecological information	n
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent 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	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
13. Disposal consideratio	ns
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
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).
	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.

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

AL	A	
	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), MARI POLLUTANT (ZINC OXIDE)	NE
Transport hazard class(es)		
Class Subsidiary hazard	9	
Packing group	-	
Environmental hazards		
Marine pollutant	Yes	
EmS Special precautions for user	F-A, S-F 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 applicable.	
IATA; IMDG		
Marine pollutant		
General information	IMDG Regulated Marine Pollutant.	
15. Regulatory information	1	
US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
Toxic Substances Control Ac	ct (TSCA)	
TSCA Section 12(b) Expo Not regulated.	ort Notification (40 CFR 707, Subpt. D)	
CERCLA Hazardous Substar	ıce List (40 CFR 302.4)	
ZINC OXIDE (CAS 1314-1 SARA 304 Emergency releas	,	
Not regulated. OSHA Specifically Regulated Not listed.	d Substances (29 CFR 1910.1001-1053)	
Superfund Amendments and Rea	authorization Act of 1986 (SARA)	
SARA 302 Extremely hazard Not listed.	ous substance	
Material name: FUCHS TIM GREASE	4100	SD
0101 Version # 02 Revision date:	May 20. 2025 Jacua data: Marah 06. 2025	6

chemical				
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
Aluminum (fume or dus Zinc Compounds	st)	7429-90-5 1314-13-2	80 - < 90 3 - < 5	
Other federal regulations				
Clean Air Act (CAA) Section	on 112 Hazardous	Air Pollutants (HAPs) List		
Not regulated. Clean Air Act (CAA) Section Not regulated.	on 112(r) Accidenta	al Release Prevention (40 Cl	FR 68.130)	
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
California Proposition 65				
		bose you to chemicals includir ancer and birth defects or oth s.ca.gov.		
California Propositior	n 65 - CRT: Listed c	late/Carcinogenic substanc	e	
CADMIUM (CAS LEAD (CAS)	,	Listed: Octobe Listed: Octobe	•	
•		late/Developmental toxin		
CADMIUM (CAS		Listed: May 1 late/Male reproductive toxin		
CADMIUM (CAS		Listed: May 1		
International Inventories)	Listed. May 1	, 1001	
		_		On inventory (ver
Country(s) or region Australia	Inventory name	e Itory of Industrial Chemicals (/		On inventory (yes
Canada		ances List (DSL)		
Canada		Substances List (NDSL)		
China		sting Chemical Substances in	China (IECSC)	
Europe	•	tory of Existing Commercial C	· · · ·	
Europe	European List o	f Notified Chemical Substance	es (ELINCS)	

Country(s) or region	Inventory name On invent	tory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Vos" indicatos that all compo	nente of this product comply with the inventory requirements administered by the governing country	

*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	May-29-2025
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