



Safety Data Sheet

White Lithium Grease

SECTION 1. IDENTIFICATION

Product Identifier	White Lithium Grease
Part number	TNDS8003
Product Family	Grease solution (non-chlorinated)
Recommended Use	General purpose lubricant.
Restrictions on Use	Not applicable.
Manufacturer	Shrader Canada Limited, 830 Progress Court, Oakville, ON, L6L 6K1, +1.905.847.0222, www.shradercanada.com
Emergency Phone No.	CANUTEC, +1.613.996.6666, Operation hours: 24/7

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable aerosol - Category 1; Gas under pressure - Compressed gas; Skin irritation - Category 2

Label Elements



Danger

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.
Pressurized container: may burst if heated.
Causes skin irritation.

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Wash hands and skin thoroughly after handling.
Wear protective gloves.

IF ON SKIN: Wash with plenty of water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

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Store in a well-ventilated place.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Naphtha (petroleum), hydrotreated light	64742-49-0	30-60	heptane	
Petroleum gases, liquefied	68476-85-7	15-40		
Mineral oil	64742-65-0	7-13		
Residual oils (petroleum), solvent de-waxed	64742-62-7	3-7		
Titanium dioxide	13463-67-7	0.1-1.0		
Lithium 12 hydroxystearate	7620-77-1	0.5-1.5		

Notes

Concentration ranges due to batch processing. Documentation supporting composition variability is maintained.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove person to fresh air and keep comfortable for breathing.

If not breathing, give artificial respiration.

Get medical attention immediately.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs, get medical advice or attention.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice or attention.

Ingestion

Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Drink two glasses of water. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Seek medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Small fire: carbon dioxide or dry chemical.

Unsuitable Extinguishing Media

Do not use a direct stream of water.

Specific Hazards Arising from the Product

Extremely flammable aerosol. contents under pressure, Vapours are heavier than air. May travel a considerable distance to a source of ignition and flash back to a leak or open container. sprayed product will project a flame on contact with an ignition source, Do not use on vehicles unless cool. containers may explode if heated.

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Carbon oxides, sulphur, nitrogen, phosphorous, and other unidentified organic compounds.

Special Protective Equipment and Precautions for Fire-fighters

Use extreme caution, fight fire from a safe distance or a protected location.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Eliminate all ignition sources. Use grounded, explosion-proof equipment. Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel.

Environmental Precautions

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Do not spray on an open flame or other ignition source. Do not pierce or burn container, even after use. Only use where there is adequate ventilation. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Do not weld, cut or perform hot work on empty container until all traces of product have been removed. Containers of this material may contain hazardous residues when "emptied".

Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated. Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL		AIHA® WEEL®	
	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term TWA [C]
Titanium dioxide	10 mg/m3 A4	Not established	15 mg/m3	Not established		

Appropriate Engineering Controls

Sufficient mechanical ventilation to maintain exposures below the TLV. Under normal conditions of use, general ventilation should be satisfactory. Local ventilation is recommended if the product is misted or used in a confined space or if the TLV is exceeded. Make up air should always be supplied to balance air exhausted. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Safety glasses with side shields. Contact lenses should not be worn, they may contribute to the severity of the injury.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.
Suitable materials are: neoprene rubber, nitrile rubber.

Respiratory Protection

Not normally required if product is used as directed. No specific guidelines are available.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	White Aerosol.
Odour	mild
Odour Threshold	Not available
pH	Not applicable
Melting Point/Freezing Point	Not available (melting)
Initial Boiling Point/Range	Not available
Flash Point	7 °C (closed cup)
Evaporation Rate	Not available
Flammability (solid, gas)	Flammable aerosol
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	> 1
Relative Density (water = 1)	0.75 at 15 °C
Solubility	Negligible in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	> 14 centistokes (kinematic)
Other Information	
VOC %	80
Flame projection	> 100 cm flashback
NFPA Classification	Aerosol Level 3

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Stable at ambient temperatures and pressures.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use. None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

Increased risk of fire and explosion on contact with: strong oxidizing agents (e.g. perchloric acid).

Hazardous Decomposition Products

Carbon oxides, sulphur, phosphorous, phosphorous. And other unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified. Reports have associated repeated and prolonged occupational overexposure to various organic solvents with internal organ, brain and nervous system damage. Prolonged or repeated exposure can result in drying of the skin, irritation and dermatitis.

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Likely Routes of Exposure

Inhalation.
Skin contact.
Eye contact.
Ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Titanium dioxide	> 6820 mg/m ³ (rat) (4-hour exposure)	> 25000 mg/kg (rat)	> 10000 mg/kg (rabbit)
Residual oils (petroleum), solvent de-waxed	> 2180 mg/m ³ (rat) (4-hour exposure)	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Mineral oil	Not available	> 5000 mg/kg (rat)	> 5000 mg/kg (rabbit)
Naphtha (petroleum), hydrotreated light	Not available	5000 mg/kg	2000 mg/kg

94% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (inhalation).

34% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (oral).

34% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (dermal).

Skin Corrosion/Irritation

May cause moderate or severe irritation based on information for closely related materials.

Serious Eye Damage/Irritation

May cause mild irritation based on information for closely related chemicals.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

No hazard under normal conditions of use. At high concentrations depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

Skin Absorption

No information was located.

Ingestion

If small amounts are swallowed not likely to cause injury. If large amounts are swallowed can cause effects as described for inhalation.

Aspiration Hazard

Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer.

Not known to be a skin sensitizer.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Titanium dioxide	Group 2B	A4	Not Listed	Not Listed
Mineral oil	Group 3	A4	Not Listed	Not Listed

Not known to cause cancer.

contains. (Titanium dioxide) which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) in this product, TiO₂ poses no known health hazards.

No information was located for: Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

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SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.
This section is not required by OSHA HCS 2012.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with municipal, provincial/state or federal regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1950	Aerosols	2.1	---
IATA (Air)	UN1950	Aerosols, flammable	2.1	---
IMDG (Marine)	UN1950	Aerosols	2.1	---

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Emergency Response Guide No. 126 EmS F-D, S-U

Guide No.

Other Information ICAO/IATA PI Y203/203
Product may ship as LTD QTY if TDG, ICAO/IATA or IMDG Limited Quantity provisions are met.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

HPR Compliance: This product has been classified in accordance with the hazard criteria of the HPR and the (M)SDS contains all of the information required by the HPR.

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

CERCLA: Not applicable.

SARA Title III - Section 302: Not applicable.

SARA Title III - Section 313: Not applicable.

California Proposition 65: Not applicable.

Massachusetts Right To Know: Not applicable.

New Jersey Right To Know. (Zinc oxide). (Titanium dioxide). (Petroleum gases, liquefied)

Pennsylvania Right To Know. (Zinc oxide). (Titanium dioxide). (Petroleum gases, liquefied)

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 1 Flammability - 4 Instability - 3
SDS Prepared By Regulatory Compliance
Phone No. 800.201.9486

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Key to Abbreviations ACGIH® = American Conference of Governmental Industrial Hygienists
CANUTEC = Canadian Transportation Emergency Centre
CAS = Chemical Abstract Services
CCOHS = Canadian Centre for Occupational Health & Safety
CNS = Central nervous system
GESTIS Substance Database
HSDB® = Hazardous Substances Data Bank
IARC = International Agency for Research on Cancer
ICAO = International Civil Aviation Organization
IMDG = International Maritime Dangerous Goods Code
LC = Lethal concentration
LD = Lethal dose
NFPA = National Fire Protection Association NTP = National Toxicology Program
OSHA = US Occupational Safety and Health Administration
PPM = Parts per million
RTECS® = Registry of Toxic Effects of Chemical Substances
STEL = Short term exposure limit
TDG = Transportation of Dangerous Goods Regulations (Canada)
TWA = Time weighted average

References Material Safety Data Sheet from manufacturer.
CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).
ECHA - European Chemical Agency, Classification and Labelling Inventory
GESTIS Substance Database
OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

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