



SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **ThixoSUM2**
Product Use: Grease
Restriction of Use: Refer to Section 15

New Zealand Supplier: **Power Up Lubricants NZ Ltd**
Address: 41 Hororata Road
RD 2 Darfield, 7572
Canterbury
New Zealand

Telephone: +64 3 962 9990 / 0800 33 66 66
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 12 February 2025

Section 2. Hazards Identification

This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	1 - 5	68584-23-6
Non-hazardous	To bal	

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

If on Skin Gently wash with plenty of soap and water. Get medical attention if symptoms occur. Take off contaminated clothing and wash it before reuse.

If Swallowed Rinse mouth out with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

If Inhaled Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

Most important symptoms and effects, both acute and delayed

Product Name: **ThixoSUM2**
Date of SDS: 12 February 2025

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

Symptoms:

Ingestion: Ingestion may cause nausea, vomiting and diarrhea. Abdominal pain.

Inhalation: Not applicable.

Skin: Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

Eye: Direct contact with the eyes is likely slightly irritating. Redness. Lacrimation. Itching. Blurred vision.

Notes to Doctor: Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from combustion products	Burning produces stinking and toxic fumes. Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Sulfur oxides (SO _x). Carbonyl halides. Metal oxides.
Suitable Extinguishing media	Use extinguishing agent suitable for surrounding fire. Do not use a heavy water stream.
Precautions for firefighters and special protective clothing	Wear a self-contained breathing apparatus. Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection. Evacuate the danger area. Fight fire from safe distance and protected location. Move containers from fire area if it can be done without personal risk. Use extinguishing media appropriate for surrounding fire. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

For Non- Emergency responders:

Wear protective equipment as detailed in Section 9. Evacuate unnecessary personnel. Ventilate spillage area. Avoid contact with skin and eyes. Do not touch or walk on the spilled product. No action shall be taken without appropriate training or involving any personal risk.

Environmental precautions:

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

Methods and material for containment and cleaning up:

Caution : this product can cause the floor to be slippery. Stop leak, if possible without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Mechanically recover the product. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean using water and a detergent.

Section 7. Handling and Storage

Precautions for Handling:

- Take all necessary technical measures to avoid or minimize the release of the product on the workplace.
- Ensure good ventilation of the workstation. Provide local exhaust or general room ventilation.
- Avoid breathing vapors, mist.
- Wear personal protective equipment.
- Avoid contact with skin, eyes and clothing.
- Do not re-use container for any purpose.
- Do not eat, drink or smoke when using this product.
- Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- Wash contaminated clothing before reuse.

Precautions for Storage:

- Store away from strong oxidising agents.
- Store in dry, cool, well-ventilated area.
- Keep only in the original container.
- Keep container tightly closed.
- Containers which are opened should be properly resealed and kept upright to prevent leakage.
- Do not store in unlabeled containers.
- Keep away from food, drink and animal feed.
- Store away from direct sunlight or other heat sources.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

None of the components have assigned exposure limits.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14TH EDITION.

Engineering Controls

Handle in accordance with good industrial hygiene and safety procedures. Avoid all unnecessary exposure. Provide local exhaust or general room ventilation. Ensure exposure is below occupational exposure limits (where available).

Personal Protection Equipment

Eyes	Even though no specific eye irritation data are available, wear eye protection appropriate to conditions of use when handling this material
Hands	Chemical resistant gloves (according to NIOSH standard). Please follow the instructions related to the permeability and the penetration time provided by the manufacturer
Skin	Wear suitable protective clothing. Skin protection appropriate to the conditions of use should be provided.
Respiratory	Where excessive vapor, mist, or dust may result, use approved respiratory protection equipment. All respirators must conform to specifications for efficiency and performance indicated by OSHA Standard 29 CFR 1910.134 and NIOSH Standards.

Section 9 Physical and Chemical Properties

Appearance	Solid, Paste, Grease
Colour	Brown
Odour	Mild, Petroleum-like
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	160 °C
Flammability	Non-Flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	0 hPa (20 °C)

Vapour Density	Not available
Density	1.22787 g/cm ³ (25 °C)
Solubility	Water: Negligible
Partition Coefficient:	Not available
Auto-ignition Temperature	> 315 °C
Decomposition Temperature	Not available
Kinematic Viscosity	130 – 145 mm ² /s (40 °C, ASTM D445); 13.6 cSt (100 °C, ASTM D445)
Particle Characteristics	Not available

Other Information:

Worked Penetration	266 (60 Stroke, ASTM D217)
Dropping Point	308 °C (ASTM D2265)
Oil Separation	0.0 % (Storage, 24 hrs, 25 °C, ASTM D1742)
Timken Pass/Fail Load Carrying Test	Pass, 2.28 mm scar (14,420 psi) (65 lbs, wear scar (psi load), ASTM D2509)
Four Ball Wear	0.50 mm (40 kg, 1200 rpm, 1hr, 75 °C, ASTM D2266)
Water Washout	1.12 % (79 °C (one bearing for screening), Bearing 1 Dried, 93 °C, ASTM D126)
Rust Preventive Properties	Pass (48 hrs, 52 °C, ASTM D1743)
Load Wear index	85.5 kgf (ASTM D2596)
Last Non-Seizure Load	63 kg (0.38 mm) (322,556 psi) (scar) (psi)
Last Seizure Load	500 (2.45 mm) (42,477 psi) (scar) (psi)
Weld Load	620 kg
Salt Spray Corrosion Test	5 %, Salt Fog, 300 hrs., ASTM B117 Panel A - Rated per ASTM D610: #10 Panel B - Rated per ASTM D610: #10 Panel C - Rated per ASTM D610: #10
Low Temperature Torque	Starting Torque 3,608 g-cm 1 Hour Running Torque 390 g-cm -30 °C, ASTM D1478 Starting Torque: 10,472 g-cm 1 Hour Running Torque: 1,365 g-cm
Organic Contents	0.50%
Solids Content	38.5%

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known. Hazardous polymerization: Will not occur.
Conditions to Avoid	None known.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

Acute Effects:

Swallowed	This product is not classified as acutely toxic. Ingestion may cause nausea, vomiting and diarrhea. Abdominal pain.
Dermal	This product is not classified as acutely toxic.
Inhalation	This product is not classified as acutely toxic.
Eye	This product is not classified an eye irritant/corrosive. Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

Skin	This product is not classified as a skin irritant/corrosive. Direct contact with the eyes is likely slightly irritating. Redness. Lacrimation. Itching. Blurred vision.
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Chronic Effects:

Carcinogenicity	This product is not classified as carcinogenic.
Reproductive Toxicity	This product is not classified as toxic for reproduction.
Germ Cell Mutagenicity	This product is not classified as mutagenic.
Aspiration	This product is not classified as Asp Tox.
STOT/SE	This product is not classified as STOT SE.
STOT/RE	This product is not classified as STOT RE.

Section 12. Ecotoxicological Information

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method:

Dispose in a safe manner in accordance with local/national regulations.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021

Section 15 Regulatory Information

This substance is NOT classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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