

Safety Data Sheet

according to WHS Regulations

Printing date 04.09.2019

Version number 6

Revision: 03.09.2019

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification**· Product identifier:****· Trade name:** KELTRACK® Trackside Transit**· Product number:** 504-TS2 (AUS WHS)**· Relevant identified uses of the substance or mixture and uses advised against:**

To provide a controlled intermediate friction coefficient between the top of rail and wheel tread surfaces, and impart positive friction characteristics. Do not use in a confined area without proper ventilation. Avoid contact with strong alkalis, mineral acids and oxidizers

· Article category Liquid friction modifier**· Details of the supplier of the safety data sheet****· Manufacturer/Supplier:**

LB Foster Rail Technologies Corp.

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Burnaby, B.C. V5A 4J8, Canada

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Importer:

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2 Hazard(s) Identification**· Classification of the substance or mixture**

Eye Irrit. 2A H319 Causes serious eye irritation.

· Label elements**· Hazard pictograms****· Signal word:** Warning**· Hazard statements:**

H319 Causes serious eye irritation.

· Precautionary Statements:

P264 Wash thoroughly after handling.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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- **Other hazards:** None known
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 57-55-6 EINECS: 200-338-0 RTECS: TY 2000000	Propylene Glycol	14.33%
CAS: 1317-33-5 EINECS: 215-263-9 RTECS: QA 4697000	Molybdenum Disulphide ⚠ Acute Tox. 4, H332	2-12%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6	1,2-benzisothiazol-3(2H)-one ⚠ Acute Tox. 4, H302; Eye Irrit. 2A, H319; Skin Sens. 1, H317	≤2.5%
CAS: 68412-54-4	Branched ethoxylated nonyl phenol ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Aquatic Acute 2, H401	≤2.5%

- **SVHC**

68412-54-4	Branched ethoxylated nonyl phenol
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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

* 4 First Aid Measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

* 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **Special hazards arising from the substance or mixture:**
Oxides of carbon, sulphur and nitrogen. Various unidentified hydrocarbons in smoke.
- **Advice for firefighters**
- **Protective equipment:**
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

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6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Low mobility should limit amount or degree of severity of spill.

Ensure spilled material does not enter sewers or waterways.

· **Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

· **Handling:**

· **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

· **Information about fire and explosion protection:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Maximum shelf life for this product is attained by storing the product as directed by the Technical Data Sheet.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

57-55-6 Propylene Glycol

WES Long-term value: 474* 10** mg/m³, 150* ppm

*vapour&particulates; **particulates only

1317-33-5 Molybdenum Disulphide

WES Long-term value: 10 mg/m³

as Mo

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

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· **Protection of hands:**

Protective gloves

· **Material of gloves:** Chemical resistant· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

*** 9 Physical and Chemical Properties**· **Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:** Thixotropic gel**Colour:** Dark grey· **Odour:** Odourless· **pH-value @ 20 °C:** 9-10· **Change in condition****Melting point/freezing point:** Not determined.**Initial boiling point and boiling range:** Not determined.· **Flash point:** Not applicable.· **Flammability (solid, gas):** Not applicable.· **Ignition temperature:** Not applicable· **Decomposition temperature:** Not determined.· **Auto-ignition temperature:** Product is not self-igniting.· **Explosive properties:** Product does not present an explosion hazard.· **Explosion limits:****Lower:** Not determined.**Upper:** Not determined.· **Vapour pressure:** Not determined.· **Density @ 20 °C:** 1.07-1.09 g/cm³· **Relative density:** Not determined.· **Vapour density @ 20 °C:** >1· **Evaporation rate:** Not determined.· **Solubility in / Miscibility with water:**

Fully miscible.

· **Partition coefficient: n-octanol/water:** Not determined.

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- **Viscosity:**
 - Dynamic:** 4200-5050 cP
 - Kinematic:** Not determined.
- **Other information** No further relevant information available.

*** 10 Stability and Reactivity**

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** Avoid contact with strong oxidizers, strong mineral acids, and strong alkalis.
- **Hazardous decomposition products:**
Oxides of carbon, sulphur and nitrogen. Various unidentified hydrocarbons in smoke.

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

1317-33-5 Molybdenum Disulphide

Inhalative	LC50/4 h	2.82 mg/l (Rat)
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9004-65-3 Hydroxypropyl Methylcellulose

Oral	LD50	2000 mg/kg (Rat)
	Intravenous	5200 mg/kg (Rat)

57-55-6 Propylene Glycol

Oral	LD50	20000 mg/kg (Rat)
Dermal	LD50	20800 mg/kg (Rabbit)
Inhalative	LC50/96 hours	52930 mg/l (Pimephales)
	Intravenous	6630 mg/kg (Mouse)
		6423 mg/kg (Rat)
		6500 mg/kg (Rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** May cause an allergic skin reaction.
- **Serious eye damage/irritation** Irritating effect.
- **Sensitisation:** Sensitisation possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:**
Propylene Glycol
LC50 Carassius auratus (Goldfish): > 5,000 mg/L/24 hr / Conditions of bioassay not specified
LC50 Lebistes reticulatus (Guppy): > 10,000 mg/L/48 hr / Conditions of bioassay not specified
LC50 Artemia salina (Brine shrimp): > 10,000 mg/L/24 hr / Conditions of bioassay not specified
LC50 Salmo gairdneri (Rainbow trout): 50,000 mg/L/24 hr / Conditions of bioassay not specified
LC50 Pimephales promelas (Fathead minnow): 54,900 mg/L/96 hr / Conditions of bioassay not specified

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- **Persistence and degradability:**
Propylene Glycol biodegrades in both soil and water. The theoretical half life in the atmosphere is 32 hours. Molybdenum is a natural occurring compound in soils and does not degrade.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:**
This thixotropic product is viscous enough to reduce mobility into the environment. Prevent discharge into sewer or waterways.
- **Additional ecological information:**
- **General notes:** Not hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **UN-Number**
- **ADG, ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name**
- **ADG, ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es)**
- **ADG, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **Packing group**
- **ADG, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· Chemicals known to cause cancer:	
None of the ingredients are listed.	
· Australian Inventory of Chemical Substances	
7732-18-5	Water, distilled water, deionized water
57-55-6	Propylene Glycol
1317-33-5	Molybdenum Disulphide
2634-33-5	1,2-benzisothiazol-3(2H)-one

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67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
124-68-5	2-amino-2-methylpropanol
68412-54-4	Branched ethoxylated nonyl phenol

· **Standard for the Uniform Scheduling of Medicines and Poisons**

9004-65-3	Hydroxypropyl Methylcellulose	S4
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· **Australia: Priority Existing Chemicals**

None of the ingredients are listed.

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



· **Signal word:** Warning

· **Hazard statements:**

H319 Causes serious eye irritation.

· **Precautionary statements:**

P264 Wash thoroughly after handling.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients are listed.

· **National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

68412-54-4	Branched ethoxylated nonyl phenol
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· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· **Date of last revision/ revision number:** 04.09.2019 / 5

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· *** Data compared to the previous version altered.**SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106