



SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:

Product Name:	Tui Firelighters
Recommended Use:	For lighting fires in indoor and outdoor fireplaces, BBQs and braziers.
Company:	Tui Products Ltd
Address:	Truman Lane, Mount Maunganui New Zealand
Telephone Number:	+64 7 5752160
Emergency Telephone Numbers:	0800 CHEMCALL (0800 243 622) 24 hours 0800 POISON (0800 764 766) National Poisons Centre 111 – New Zealand Fire Service
Date of Preparation:	March 2016

2. HAZARDS IDENTIFICATION:

Dangerous Goods:	Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.
Hazardous Substance (HSNO):	Classified as hazardous according to criteria in the HS (Minimum Degree of Hazard) Regulations 2001.
HSNO Hazard Classifications:	4.1.1B, 6.3A, 6.9, 9.1B.
Signal Word:	Warning



Hazard Statements:	Flammable solid. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.
Prevention Statements:	Keep out of reach of children. If medical advice is needed, have product container or label at hand Read label before use. Read Safety Data Sheet before use. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wear protective gloves/eye protection/face protection. Wash exposed skin thoroughly after handling Avoid breathing dust/fume/vapours. Use only outdoors or in a well-ventilated area.
Response Statements:	In case of fire: Use foam, carbon dioxide (CO ₂), dry chemical, water spray for extinction. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Collect Spillage
Storage Statements:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**3. COMPOSITION/INFORMATION ON INGREDIENTS:**

COMPONENT	CONCENTRATION	CAS NUMBER
Kerosene (petroleum), hydrodesulphurised	80 – 85%	64742-81-0
Resin Urea-Formaldehyde	10 – 15%	

4. FIRST AID MEASURES:

For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor/physician.

Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Contact a doctor.
Ingestion:	If swallowed, seek immediate medical attention. Do NOT induce vomiting or give any drinks unless directed to do so by medical personnel.
Eye Contact:	Rinse immediately carefully and thoroughly with eye-bath or cold water. Continue for at least 15 minutes. Remove contact lenses. In case of troubles or persistent symptoms, consult an ophthalmologist.
Skin Contact:	Immediately wash skin well with plenty of water and soap whilst removing contaminated clothing. Wash clothing before re-use. In case of skin irritation, seek medical treatment.
Important Symptoms and effects, both acute and delayed.	High temperatures and insufficient ventilation may lead to high vapour concentrations, which can cause dizziness, headaches and sickness. Caution if victim vomits: Risk of aspiration!
Notes to Physician:	Treat symptomatically.

5. FIRE FIGHTING MEASURES:

Suitable Extinguishing Media:	If material is involved in a fire, use water, carbon dioxide (CO ₂), foam, extinguishing powder. Fight larger fires with water spray jet or alcohol-resistant foam.
Unsuitable Extinguishing Media:	For safety reasons DO NOT use high power water jet.
Precautions for fire fighters and special protective clothing:	Fire fighters to wear self-contained breathing apparatus and suitable protective clothing.
Hazards from combustion products:	Toxic fumes under fire conditions including Carbon Dioxide, Nitrogen Oxides (NO _x), Carbon Monoxide, Carbon black Aldehyde, Ketones.
HAZCHEM CODE:	3Z
Additional Information:	Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment. Douse small fires with a foam extinguisher or carbon dioxide. Use water spray/stream to protect personnel and to cool endangered containers. Suppress vapours with a water spray jet.



6. ACCIDENTAL RELEASE MEASURES:

Emergency Procedures:	Isolate area. Keep unnecessary and unprotected personnel from entering the area. If contamination of sewers or waterways has occurred advise local emergency services.
Personal Precautions, Protective Equipment and Emergency Procedures:	Refer to SDS section 7 for handling and precautionary measures. Refer to SDS section 8 for additional information and personal protection equipment to prevent contamination of skin, eyes and personal clothing.
Environmental Precautions:	Contain - prevent from entering into soil, ditches, sewers, waterways and/or groundwater.
Methods and Materials for Containment and Clean up:	When safe to do so collect spilled product and place in properly labelled sealable container for disposal. If contamination of sewers or waterways has occurred advise local emergency services.

7. HANDLING & STORAGE:

Precautions for safe handling and storage:

Handling:	Keep out of reach of children. Take precautionary measures against static discharges. The fire starter must be burned completely prior to applying your food. Protect from sunlight and heat sources. Provide for sufficient ventilation and punctiform suction at critical points. Avoid skin, eye contact and breathing in dust, fume or vapours. After work, remove protective clothing and equipment, wash hands before eating, drinking, and chewing gum, using tobacco or using the toilet. Clean up spilled material immediately and wash clothing, equipment and work area after use. Avoid prolonged skin contact.
Storage:	Store locked up. Store in a tightly closed original container in a cool, dry, well-ventilated area out of direct sunlight. Store away from children, animals, food, feedstuffs, drink containers, fertilisers and seeds. Keep containers closed when not in use and check regularly for leaks. Keep away from sources of ignition – no smoking. Take precautionary measures against static discharges.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Occupational Exposure Limits:	No ADE, PDE or TEL values are set by EPA for this substance at this time. No WES values are set by EPA for this substance at this time. Exposure guidelines: However, Workplace Exposure Standard(s) for constituent: Formaldehyde (sensitiser) (CAS No. 50-00-0): 0.5ppm (8 hour shift) 0.33ppm (12 hour shift) Ceiling 1ppm
Engineering Controls:	Ensure ventilation is adequate to maintain air concentrations below exposure standards. In case if insufficient ventilation wear respiratory protection. Keep containers closed when not in use.



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Engineering Controls:	Ensure ventilation is adequate to maintain air concentrations below exposure standards. In case if insufficient ventilation wear respiratory protection. Keep containers closed when not in use.
Personal Protective Equipment:	Avoid contact with skin, eye contact and breathing in dust, fume or vapours. Respiratory Protection: Use with adequate ventilation, atmospheric levels should be maintained below the exposure guidelines. In case if insufficient ventilation wear respiratory protection. Skin protection: Not required with proper handling. During intensive and prolonged skin contact use appropriate gloves, suitable material: Nitrile rubber (coating thickness: 0.11mm, diffusion time: 480 mins). Protect skin by using skin protective cream. Wash hands and exposed skin thoroughly after use. Eye protection: Not required with proper handling.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	White solid
Odour:	Solvent-like
pH:	Not available.
Vapour Pressure (20°C):	* < 8 hPa (Test method, EN 13016-1).
Vapour Pressure (37.8°C):	* < 36 hPa (Test method, EN 13016-1).
Density (at 15°C):	* 0.780 – 0.820g/cm ³
Vapour Density:	* > 1
Boiling Point (°C):	* 155°C – 299°C (Test method, ASTM D86).
Solubility in water:	Slightly soluble
Flash point (°C):	* > 62°C (Test method, ASTM D93).
Flammability Limit:	Highly flammable.
Lower Explosion Limit:	* 1.2 vol. %
Upper Explosion Limit:	* 8.8 vol. %.
Auto Ignition Temperature (°C), solid:	* > 230°C

*NOTE: The data refers to the ingredient Kerosene (petroleum) hydrodesulphurised



10. STABILITY and REACTIVITY:

Chemical Stability:	Stable under normal conditions of use.
Conditions to avoid:	Avoid excessive heat and sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Incompatible materials:	Incompatible with oxidising agents. Avoid acids, aluminium and ammonium salts.
Hazardous decomposition products:	Toxic fumes under fire conditions including Carbon Dioxide, Nitrogen Oxides (NOx), Carbon Monoxide, Carbon black Aldehyde, Ketones.
Hazardous Reactions:	No dangerous reactivity under regular conditions. No dangerous reactions to be expected if used properly.

11. TOXICOLOGICAL INFORMATION:

Potential Health Effects: This section includes possible adverse effects, which could occur if the product is not handled in the recommended manner.

Eye Contact:	For Kerosene (petroleum) hydrodesulphurised: Irritant effect on the eye: Eye irritation.
Skin Contact:	For Kerosene (petroleum) hydrodesulphurised: Irritant effect on the skin: no irritation; prolonged local skin contact causes skin de-fattening and risk of dermatitis.
Ingestion:	No Oral LD ₅₀ data available for the product. However for constituents: Acute oral toxicity LD ₅₀ for rats >5000mg/kg for Kerosene (petroleum) hydrodesulphurised ⁽¹⁾ .
Sensitising effect:	No sensitising effects known.
Inhalation:	For Kerosene (petroleum) hydrodesulphurised: High concentration may cause irritation of the respiratory tract.
Severe effects after repeated or prolonged exposure:	Has de-greasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation.

12. ECOLOGICAL INFORMATION:

Ecotoxicity:	Toxic to aquatic life with long lasting effects.
Persistence and degradability:	No data available.
Mobility:	No data available.
Bioaccumulation potential:	No data available.

13. DISPOSAL CONSIDERATIONS:

Disposal methods:	<p>Dispose of this product by using in accordance with the product label directions.</p> <p>Do not dispose of this product; or equipment cleaning water down drains or sewers.</p> <p>Container disposal – Crush and bury triple rinsed empty containers in a suitable approved landfill. Do not burn empty containers.</p> <p>Disposal of empty crushed containers with household rubbish collection is lawful means of disposal.</p> <p>If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local area regulatory authorities following all applicable regional, national and local laws and regulations. Some local authorities offer hazardous waste collection, contact your local council for details.</p>
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14. TRANSPORT INFORMATION:

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Maximum quantity permitted to be transported in a passenger service vehicle: 3kg per package.

UN Number: 2623.
Proper shipping name: FIRELIGHTERS, SOLID with flammable liquid
DG class: 4.1.
Hazard Label: 4.1.



Packing group: III
HAZCHEM Code: 3Z
Classification Code: F1

15. REGULATORY INFORMATION:

EPA New Zealand Approval Code: HSR002522.
Exposure limits: No WES values are set by EPA for this substance at this time.

16. OTHER INFORMATION:

Date of preparation of SDS: March 2016.

Abbreviations in SDS:

- ADE:** Acceptable daily exposure values set by EPA.
- EEL:** Environmental exposure standard set by EPA.
- EPA:** The Environmental Protection Authority of New Zealand.
- LC₅₀:** Lethal Concentration 50%. A concentration of chemical in air or water that will kill 50% of the test organisms.
- LD₅₀:** Lethal Dose-50%. The doses of a chemical that will kill 50% of the test animals receiving it.
- NOAEL:** No Observable Adverse Effect level.
- NOEL:** No Observed Effect level.
- PDE:** Potential daily exposure values set by EPA.
- pH:** A measurement of how acidic or alkaline a material is using a scale of 1 -14. pH 1 is strongly acidic, pH 14 is strongly alkaline.
- TEL:** Tolerable exposure limit set by EPA.
- WES:** Work place exposure standard set by EPA or NZ Dept. of Labour Health & Safety.

References: (1) Charcoal Lighters (Boomex) Safety Data Sheet, Revision 1 23.01.12 - VESCON Solutions GmbH, Ebersbacher Straße 101, 63743 Aschaffenburg, Phone: 06021 - 1 50 86-0, Fax: 06021 - 1 50 86-77, E-Mail: eu-sds@vescon.com

DISCLAIMER:

This product must be used strictly as directed. To the maximum extent permitted by law Tui Products Limited, its officers, employees, agents, distributors and retailers shall have no liability to any purchaser or user of this product, or any other person, for any loss, damage or injury (including personal injury) arising out of the use or storage of this product otherwise than in accordance with the directions for use and storage.