

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: CITRONELLA OIL

Other Names: Citronella Lamp Oil

Recommended Use: Fuel for lamps, flares and torches to deter mosquitoes and other insects

Supplier: TMK Packers Ltd
Address: 22 Trugood Drive, East Tamaki, Auckland 2013
PO Box 258031, Botany, Auckland 2163
Telephone: (+64) 9 273 3753
Website: www.tmkpackers.co.nz

Emergency Phone: 0800 273 327 (24 Hr, TMK Packers)
National Poisons Centre: 0800 764 766

2. HAZARDS IDENTIFICATION

Hazardous Nature:

This product is classified as hazardous under GHS (7th revised edition) in accordance with the New Zealand Hazardous Substances (Hazard Classification) Notice 2020.

Hazardous Classifications:

flammable liquids Category 3, aspiration hazard Category 1, hazardous to the aquatic environment chronic Category 3

GHS Pictograms



Signal word: WARNING

Hazard Statements:

H226 Flammable liquid and vapour
H305 May be harmful if swallowed and enters airways
H412 Harmful to aquatic life with long-lasting effects.

Prevention Statements:

P210 Keep away from heat, open flames, hot surfaces. No smoking.
P233 Keep container tightly closed
P240 Ground/bond containers and receiving equipment
P241 Use explosion proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.



P273 Avoid release to environment.

P280 Wear protective gloves.

Response Statements:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P370 + P378 In case of fire: use dry chemical or foam extinguishing media

Storage Statements:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal Statement:

P501 Dispose of waste in accordance with Regional Authority or local council regulations.

3. COMPOSITION INFORMATION

Chemical Ingredient	CAS No.	Proportion(%)
Naphtha petroleum, heavy	64741-65-7	30 – 60
Distillates, petroleum, light hydrotreated	64742-47-8	30 – 60
Citronella oil	8000-29-1	1

4. FIRST AID MEASURES

For advice, contact National Poison Centre (0800 POISON; 0800 764 766) or a doctor.

Have product container or label available.

Swallowed

If swallowed, do NOT induce vomiting. Rinse mouth. If spontaneous vomiting occurs, hold head below hips to avoid possible aspiration into lungs. Get medical attention.

Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation persists get medical attention.

Eye Contact

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Remove contact lenses if present and easy to do, after the first 5 minutes and continue rinsing. Get medical attention if irritation persists.

Inhalation

Move the victim to fresh air immediately. Keep warm and at rest until recovered. Get medical attention if rapid recovery does not occur.

First Aid Facilities: Provide eye bath and hand washing facilities.

Advice to Doctor: Treat according to symptoms. Risk of aspiration into lungs with potential to cause chemical pneumonitis.

5. FIRE FIGHTING MEASURES

Flashpoint: 38°C

Flammable limits: LFL : not available UFL: not available



Extinguishing media:

Foam, CO2 or dry chemical. Use water spray or water fog on large fires only.

Fire & Explosion hazards:

Flammable liquid and vapour. The vapour forms explosive mixtures with air. Do not breathe smoke, gases or vapours generated in a fire. Decomposition products may be toxic.

Firefighting Equipment:

Full protective clothing and self-contained breathing apparatus (SCBA).

In event of fire:

- Alert Fire Bridge (111); advise location and nature of hazard.
- Keep bystanders away.
- Wear breathing apparatus and protective gloves.
- Shut off product that may 'fuel' a fire if safe to do so.
- Eliminate sources of ignition
- If safe, switch off electrical equipment until vapour hazard removed.
- Use fine water spray to control fire and cool adjacent area.
- Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet.
- Prevent product and extinguishing media from escaping to drains and waterways.

Hazards from combustion products:

Product will emit toxic fumes of carbon monoxide.

Hazchem Code: 3Y

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures & Containment:

Refer to "Fire Fighting Measures", "First Aid Measures" and "Stability and Reactivity".

Minor spills

- Clean up spills immediately.
- Remove all ignition sources.
- Avoid breathing vapours and contact with skin and eyes.
- Wear personal protective equipment.
- Contain and absorb small quantities with vermiculite or other absorbent material.
- Collect residues and waste material in a labelled container.
- Seal container and dispose of safely.

Major spills

- Clear area of personnel and move upwind.
- Alert Fire Bridge (111); advise location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Eliminate ignition sources, naked lights. No smoking.
- Stop leak if safe to do so.
- Water spray or water fog may be used to disperse or absorb vapour.
- Contain spill with sand, earth or vermiculite.
- Use spark-free shovels and explosion proof equipment.
- Prevent by any means available, spillage from entering drains, sewers, watercourses, or low-lying



- areas.
- Increase ventilation.
- Collect recoverable product into labeled contains for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent run off into drains.
- If contamination of drains or waterways occurs, advise Emergency Services and Local or Regional authority.

7. HANDLING AND STORAGE

Precautions for safe handling:

Read product label before use. Use in well-ventilated area. Avoid smoking, naked lights or ignition sources. Avoid generation of static electricity. Do NOT use plastic buckets. Use only spark-free tools. Avoid all personal contact including by inhalation. Wear personal protective equipment and clothing including gloves and wash hands with soap and water after handling.

Conditions for safe storage:

Store in original packaging in a cool, dry well-ventilated place out of reach of children. Check containers periodically for leaks or distortion.

Incompatible materials:

Oxidising agents.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

Health Exposure Standards:

A Workplace Exposure Standard (WES) has not been set for this product.

Biological limit values: None established

Engineering Controls:

Ventilation: Avoid breathing vapours. Use product outdoors or in well-ventilated area.

Personal Protective Equipment:

Respiratory Protection: Not normally required. Wear a SAA approved respirator when using in confined area or where over-exposure risk exists. A half-face filter mask with a type "A" filter material is considered suitable for this product.

Eye Protection: Protect eyes from splashes. Always use safety glasses with side shields, or wear goggles.

Skin/ Body Protection:

Wear gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber, and clothing with long sleeves and long trousers or coveralls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear orange liquid
Odour	-	Solvent



Flash Point	°C	38
Specific gravity @ 20°C	g/ml	0.78 – 0.82
Vapour Pressure @ 20°C	mm Hg	Not available
Vapour Density @ 20°C	kPa	Not available
Explosive Limits in Air	%	Not available
Viscosity	cSt	Not available
Volatiles	%vol/vol	>99
Alkalinity/acidity (as pH)	-	Not available
Solubility in Water	% w/w	Immiscible

The values listed are indicative of this product's physical and chemical properties.

10. STABILITY AND REACTIVITY

- Chemical Stability:** Stable at room temperature and pressure.
- Conditions to avoid:** Contact with oxidizing agents, i.e. nitrates, oxidizing acids, chlorine bleaches, pole chlorine etc. Contact with plastic buckets.
- Hazardous decomposition products:** No decomposition products except on burning. See "Fire Fighting Measures" and "Hazardous Reactions".
- Hazardous reactions:** No specific information available.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

If swallowed may cause gastrointestinal tract discomfort with oedema and mucosal ulceration. Symptoms may include burning sensation of mouth and throat, and if large quantity swallowed, nausea, vomiting, weakness or dizziness, slow and shallow respiration, swelling of abdomen, unconsciousness and convulsions. Vomiting may result in aspiration into lungs which may lead to chemical pneumonitis.

Eye Contact

This product may be irritating to the eyes resulting in tearing and redness. Repeated or prolonged exposure will aggravate any symptoms (redness) and may also lead to blurred vision and transient eye damage or ulceration.

Skin Contact

This product can be irritating to the skin. Prolonged or repeated exposure may defat skin leading to drying, cracking and possibly non-allergenic contact dermatitis.

Inhalation

Vapours may cause discomfort to the upper respiratory tract. Symptoms of over-exposure may be drowsiness and dizziness accompanied by narcosis, lack of reflexes or co-ordination.

Chronic Effects: Repeated or prolonged exposure to mixed hydrocarbons may result in dizziness, weakness, irritability, lack of concentration and memory loss, tremor of extremities, e.g. fingers, weight loss, anemia, ill-effects to liver and kidneys.

Other Health Effects Information: Not available.

Toxicological Information:

Citronella oil Dermal, LD₅₀, rat 4700 mg/kg
Inhalation, LC₅₀ (4hr), rat 3.1 mg/L



12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity:

This product has not been classified as being toxic to aquatic life however does contain ecotoxic components. Do not discharge product to sewer, drains or waterways.

Persistence/degradability:

Not expected to be persistent or bioaccumulative.

Mobility:

Product is not miscible with water.

Other information:

Citronella oil

Rainbow trout LC₅₀ (96hr) 17.3 mg/L

Daphnia magna EC₅₀ (48hr) 26.4 mg/L

Environmental Exposure Standards: Not set

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national, regional and local authority regulations. Packaging may still contain product vapours.

14. TRANSPORT INFORMATION

UN Number: 1993

Shipping name: FLAMMABLE LIQUID, N.O.S (CONTAINS NAPHTHA PETROLEUM)

Class: 3

Packing group: III

Hazchem code: 3Y

Dangerous Goods Segregation

This product is classified as Dangerous Good Class 3, Packing Group III.
Please consult NZS 5433:2020 Transport of Dangerous Goods on Land for information.



15. REGULATORY INFORMATION

Country/ Region: New Zealand

Inventory: NZIoC

Status: Listed

EPA New Zealand Approval Code: HSR002650 Solvent (Flammable) Group Standard 2020.

Refer www.epa.govt.nz for information on Controls.

16. OTHER INFORMATION

Issue Number: 6



Date of Issue: 19th February, 2025
Reasons for Issue: Update to GHS classifications.
Replaces: 9th July, 2024

Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
AS/NZS	Standards Australia & Standards New Zealand
BCF	Bioconcentration Factor
BEI	Biological Exposure Index
CAS	Chemical Abstracts Service
CCID	Chemical Classification and Information Database
EC50	Effective Concentration, 50 per cent
EPA	Environmental Protection Authority
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
GHS 7	Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition, 2017, published by the United Nations
HSNO	Hazardous Substances and New Organisms Act 1996
HSWA	Health and Safety at Work Act 2015
IARC	International Agency for Research on Cancer
IC50	Half Maximal Inhibitory Concentration
LC50	Lethal Concentration, 50 per cent
LD50	Lethal Dose, 50 per cent
LEL	Lower Explosive Limit
LOAEL	Lowest-observed-adverse-effect level N/R: Not Regulated
NOAEL	No-observed-adverse-effect-level
NOEC	No Observed Effect Concentration
NZIoC	New Zealand Inventory of Chemicals
NZS 5433	New Zealand Standard Transport of Dangerous Goods on Land
OECD	Organisation for Economic Co-operation and Development
STEL	Short-Term-Exposure Limit
TLV	Threshold Limit Value
TWA	Time-Weighted Average
UEL	Upper Explosive Limit
WES	Workplace Exposure Limit

References:

Supplier Safety Data Sheets
EPA website: www.epa.govt.nz

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact TMK Packers Ltd.

END OF SAFETY DATA SHEET

