MATERIAL SAFETY DATA SHEET (MSDS)

XCELL Kerosene XK

Proper Shipping Name	Kerosene	**Hazard Class**	3
Recommended use	Industrial Chemical, Fuel	**Packing Group**	III
Company	Xcell Products NZ	**UN No**	1223
Address	71 Adams drive, Auckland New Zealand	**Hazchem Code**	3(Y)
		Subsidiary Risk	None
Telephone	+64 9 238 2389 (8.00 - 4.30 Mon to Fri)	**Poisons Schedule**	n/a
Fax	+64 9 238 2399		

Emergency Telephone +64 21 930 795 (24 hours emergency only)
National Poison Centre (24 hours): 0800 POISON (764 766)

Ingredients	Content*	CAS No
Kerosene (petroleum) hydrodesulpherised	High	8008-20-6
Naphthalene	Low	91-20-3

*Content: High >60%, Medium 10 to 60%, Low 1 to 10%, Very Low <1%

Physical and chemical properties

Appearance	Clear pale yellow liquid	**Solubility**	Insoluble in water
Physical State	Liquid	**% Volatiles**	100
Odour	Solvent Odour	**Vapour Pressure**	3 kPa
Specific Gravity	0.80	**Vapour Density**	Not available
pH	n/a	**Flash Point**	38 C
Boiling Point	Typically >150 C	**Flammable Limits**	Air: LEL: 1.0% UEL: 6.0%

Hazard identification

DANGER:

- Flammable liquid and vapour
- May be fatal if swallowed and enters airways
- Causes mild skin irritation
- Suspected of causing cancer
- Harmful to aquatic life with long lasting effects

PREVENTION:

- Read label before use
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical /ventilating/lighting equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Keep out of reach of children
- Wash hands thoroughly after handling.
- Do not breathe fume/gas/vapours /spray.
- Do not eat, drink or smoke when using this product
- Avoid release to the environment
- Wear protective gloves and eye/face protection

First-aid measures

Eyes:	Immediately flush eyes with plenty of water for 15 minutes. Remove contact lens, if present and easy to do. If irritation persists, seek medical attention.
Skin:	Wash exposed area with mild soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.
Ingestion:	Do not Induce Vomiting. Get immediate medical attention.
Inhalation:	Remove victim from area of exposure. If respiratory irritation, dizziness, nausea or unconsciousness occurs, seek immediate medical attention. Give artificial respiration if not breathing.
NOTES TO PHYSICIAN:	Treat according to symptoms. Avoid gastric lavage. Aspiration of product to lungs may result in chemical pneumonitis.

FOR FURTHER INFORMATION CONTACT (24 hours)

THE NATIONAL POISON CENTRE: 0800 POISON [764 766]

Fire-fighting measures

Flash Point:	38°C
Auto ignition Temp:	>250°C
Flammable Limits in Air % by Volume:	LEL: 1.0 UEL: 6.0
Extinguishing Media:	Dry chemical, foam, or carbon dioxide or water fog.
Fire Fighting Instructions:	Proper respiratory equipment to protect against the hazardous effects of combustion products is recommended.
Unusual Fire and Explosion Hazards:	Vapour accumulations may flash and/or explode if ignited. Keep ignition sources, open flames, etc, away from those fumes.

Accidental release measures

Land Spills or Leaks:	SMALL SPILL: Extinguish possible sources of ignition. Evacuate all unprotected personnel and ventilate area. Only personnel equipped with proper respiratory, skin/eye protection should enter spill area. Dike area to contain spill and clean up by absorbing on an inert absorbent or other means. Don't flush into sewers or natural waterways. LARGE SPILL: Contain material as described above and call the local fire or police department for immediate emergency assistance.
Waste Disposal Method:	Dispose through licensed disposal company.

Handling and storage

HANDLING	Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel or container to another. This material can accumulate static charge by flow or agitation. Vapours can be ignited by static discharge. Use explosion proof equipment as directed by local fire codes.
STORAGE	Store unopened containers under cool, dry and ventilated conditions. Keep away from heat, sparks and flame.

Exposure controls and personal protection

Engineering Controls: General (mechanical) room ventilation is considered satisfactory in enclosed spaces. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

Eye / Face Protection: Wear safety glasses with side shields or goggles when handling this material.

Body Protection: PVC-coated gloves. Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing should be worn.

Respiratory Protection: Where concentrations in air may exceed the limits, it is recommended to use an approved organic vapour respirator. For high airborne concentrations, use an approved supplied-air respirator operated in a positive pressure mode.

Exposure Limits:

		WES -TWA	WES-STEL
Naphthalene		10ppm (52mg/m3)	15ppm (79mg/m3)
Kerosene	(aerosol)	5mg/m3	
	(vapour)	200mg/m3	

Stability and reactivity

Stability of the substance: Stable at room temperature

Conditions Contributing to Instability: Exposure to excessive heat, open flames and sparks. Avoid conditions that favour the formation of excessive mists and/or fumes.

Incompatibility: Sources of heat &/or ignition, oxidising agents, strong acids, alkalis, halogens.

Hazardous Decomposition Products: No decomposition products except on burning – Smoke, fume, aldehydes, sulphur oxides, carbon dioxide and carbon monoxide.

Conditions Contributing to Hazardous Polymerization: None, will not occur.

Toxicological information

Inhalation: This product may be irritating. Vapours may cause drowsiness and or dizziness and central nervous system (CNS) depression.

Ingestion: Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis or pulmonary oedema. Ingesting any amount of this product will result in headaches, nausea, dizziness and tracheal burning.

Skin: This product is mildly irritating to the skin with prolonged exposure, it may result in dryness and cracking. Prolonged or repeated exposure may aggravate and existing dermatitis.

Eyes: This product may be irritating to eyes but will not permanently damage the eye tissue.

Chronic Effects: Lifetime skin painting tests with kerosene on animals resulted in tumors. Mechanism was due to repeated cycles of skin damage and restorative hyperplasia. This mechanism is considered unlikely in humans where such prolonged skin irritation would not be tolerated.

Product contains naphthalene. Exposure to high concentrations may cause destruction of red blood cells, anemia and cataracts. Naphthalene caused cancer in laboratory animal studies, but the relevance of these findings to humans is uncertain.

Ecological information

Aquatic Toxicity	Product contains components identified as being toxic in the aquatic environment with long lasting effects.

Disposal considerations

Dispose through licensed disposal company

Regulatory information

HSNO Approval No:	HSR001049
Group Standard:	Kerosene
HSNO Classes:	3.1C, 6.1E, 6.3B, 6.7B, 9.1B

Other information

New Zealand National Poison Information Centre (24 hours): 0800 POISON [764 766]
New Zealand Emergency Services: 111

For General Information contact:	Xcell Products NZ Phone: +64 9 238 2389 [8.00 am to 4.30pm – Mon to Fri] Fax: +64 9 238 2399

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