



SAFETY DATA SHEET

Section 1 - Identification of Substance & Company

Product Xcell Kerosene **XX**

Product Identifier: Kerosene
Product Code: XK
HSNO approval: HSR001049
Approval description: Kerosene
UN number: 1223
DG class: 3
Proper Shipping Name: KEROSENE
Packaging group: III
Hazchem code: 3Y
Identified Uses: Industrial solvent and formulations component, fuel

Supplier name: Xcell Products NZ
Address (New Zealand): 71F Adams Drive, Auckland, New Zealand

Telephone: +64 9 238 2389 [8.00am – 4:30pm Mon – Fri]
Fax: +64 9 239 2399

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

Section 2 - Hazard identification

Approval (New Zealand)

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR001049, Kerosene), and is classified as follows:

GHS 7 Classes

Flammable Liquid cat 3
Aspiration cat 1
Chronic Aquatic Cat 2

Hazard statements

H225 - Flammable liquid and vapour.
H304 – May be fatal if swallowed and enters airways.
H411- Toxic to aquatic life with long lasting effects.

HSNO Classes

3.1C
6.1E (Oral)
6.1E (aspiration)
6.3B
9.1B

Hazard statements

H225 - Flammable liquid and vapour.
H303 – May be harmful if swallowed.
H304 – May be fatal if swallowed and enters airways.
H316 - Causes mild skin irritation.
H411- Toxic to aquatic life with long lasting effects.

Symbols

DANGER



Precautionary Statements

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion proof electrical/ventilating/light/.../equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

P331: Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower.

P337+P313: If skin irritation occurs. Get medical advice/attention.

P314: Get medical advice/attention if you feel unwell.

P370+P376: In case of fire: Stop leak if safe to do so.

P391: Collect spillage.

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

P405: Store locked up.

P501: Dispose of contents, or container in accordance with local/regional/national/international regulation.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS	Conc (%)
Kerosene	8008-20-6	>99%
Ethyl Benzene	100-41-4	0.1-1%
Naphthalene	91-20-3	<2%

*This is a commercial product whose exact ration of components may way. Trace quantities of impurities are also likely.

Section 4 - First-aid Measures

You should call the National Poisons Centre (New Zealand) if you feel that you may have been harmed or irritated by this product.

Inhalation:	Move the victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes:	Flush eye with running water for at least 15 minutes. Seek medical attention if irritation persists.
Skin:	If skin or hair contact occurs, wash with soap and water. If skin irritation occurs, get medical advice. Wash contaminated clothing

	before re-use.
Ingestion:	If swallowed, do not induce vomiting. Obtain immediate medical advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into lungs.
Advice to Doctor:	Treat symptomatically.
First Aid Facilities:	Eye wash station and safety shower.

Section 5 - Firefighting Measures

Fire & Explosion Hazards:	Flammable liquid and vapour.
Suitable Extinguishing Substances:	If material is involved in a fire use water fog, foam, dry chemical or carbon dioxide. Do NOT use straight streams of water.
Products of Combustion	Aldehydes, sulphur oxides, carbon dioxide and carbon monoxide and other incomplete combustion products.
Protective Equipment:	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
Hazchem code:	3Y

Section 6 - Accidental release measures

Containment:	If greater than 1000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to storm water.
Emergency procedures:	In the event of spillage alert the fire brigade to location and give brief description of hazard. Stop the source of the leak. If safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust. Prevent by whatever means possible any spillage from entering drains, sewers or water sources. (If this occurs contact your regional council immediately.)
Clean-up method:	Use absorbent soil, sand or other inert material. Rags are not recommended for clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
Disposal:	Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only accord with all regulations.
Precautions:	Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

Section 7 - Handling and storage

- Storage:** Store in a cool, dry, well ventilated place out of direct sunlight. Storage and transfer containers, and associated equipment, should be earthed and bonded to prevent accumulation of static discharge. Do not pressurise, cut, heat or weld containers. This product will fuel a fire in progress.
- Handling:** See section 8 with regard to personal protective equipment requirements. Keep container closed when not in use. Handle containers with care. Do not open near naked flame, sources of heat or ignition. Open slowly to control possible pressure release. No splash filling. Material will accumulate static charge which may cause an electrical spark (ignition source). Use bonding and/or earthing measures to avoid discharge (electrical spark) but not this may not eliminate the hazard.

Section 8 - Exposure Controls and Personal Protection

Workplace Exposure Standards – New Zealand

NZ Workplace Exposure Standards	Ingredient	WES-TWA	WES-STEL
	Ethyl benzene	100ppm, 434ng/m ³	125ppm, 543mg/m ³
	Naphthalene	10ppm, 52mg/m ³	15ppm, 79mg/m ³

- Engineering Controls:** The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.
- Eye Protection:** Avoid contact with eyes. Always use safety glasses or a face shield when handling this product. Select eye protection in accordance with AS/NZS 1337.
- Skin Protection:** PVC gloves are recommended. Protective gloves should be suitably resistant to material and comply with AS 2161. Replace frequently.
- Respiratory:** A respirator should be worn when airborne concentrations approach the WES. Respirator should have appropriate Type A filter complaint with AS/NZS 1716. Respirator must be used and maintained in accordance with AS/NZS 1715.

Section 9 - Physical and Chemical Properties

Appearance	Clear, pale yellow	Solubility	Negligible
Physical State	Liquid	% Volatiles	100%
Odour	Petroleum Solvent	Vapour Pressure	3 kPa @ 20°C
Specific Gravity	0.8g @20°C	Vapour Density	N/A
pH	No Data	Flash Point	>38°C
Explosive Limits	1.0-6.0%	Viscosity	2cSt
Boiling Point	>150°C		

Section 10 - Stability and Reactivity

Stability:	Stable under normal conditions.
Conditions to be avoided:	Sources of heat and ignition, open flames.
Hazardous decomposition products:	Carbon monoxide and carbon dioxide and other other noxious vapours on incomplete burning.
Hazardous Polymerization:	Will not occur.
Incompatible Groups	Strong acids, alkalis, halogens, strong oxidisers.

Section 11 - Toxicological Information

IF SWALLOWED:	Liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema.
IF IN EYES:	This product may cause mild short lasting discomfort to eyes.
IF ON SKIN:	This product is a mild irritant to skin. Prolonged or repeated exposure may result in dryness and cracking of skin.
IF INHALED:	May be irritating to nose, throat and lungs if inhaled. Vapours may cause drowsiness and dizziness. Breathing high vapour concentrations may cause dizziness, light headaches, headaches, nausea and loss of co-ordination. If exposure continues then unconsciousness may result. May cause central nervous system depression.
CHRONIC TOXICITY:	Lifetime skin painting tests produced tumours but the mechanism is due to repeated cycles of skin damage and restorative hyperplasia. This mechanism is considered to be unlikely in humans where such prolonged skin damage would not be tolerated. This product may also contain low concentrations low of naphthalene and ethyl benzene. Exposure to high concentrations of naphthalene may cause destruction of red blood cells, anemia and cataracts. Naphthalene and ethyl benzene both cause cancer in laboratory animal studies.

Acute	Oral	Using LD50 for ingredients the calculated LD50 (oral,rat) for the mixture is > 2000 mg/kg.
	Dermal	Using LD50 for ingredients the calculated LD50 (Dermal, rabbit) for the mixture is > 2000 mg/kg.
	Inhaled	No data available.
	Eye	The mixture is not considered to be a eye irritant.
	Skin	Causes mild skin irritation.
Chronic	Sensitisation	No ingredient present at concentrations > 0.1% is considered a sensitizer.
	Mutagenicity	No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive/ Developmental	Suspected of damaging fertility or the unborn child.

Systemic	May cause damage to organs through prolonged or repeated exposure.
Aggravation of existing conditions	None known.

Section -12 Ecological Information

Aquatic:	Using EC50 for the ingredients, the calculated EC50 for the the mixture is > 100mg/L
<i>Fish Toxicity, Lc50 (96hr):</i>	Based on similar materials: EC50 (Oncorhynchus mykiss): 1-100mg/L/96 h
<i>Crustacean Toxicity (Daphnia Magna), EC50 (48hr):</i>	Based on similar materials: EC50 (Daphnia Magna): 1-100mg/L/ 48 h, NOELR (Daphnia Magna) 0.48mg/L/21 d
<i>Green Algae Toxicity, EC50 (72hr):</i>	Based on similar materials: EC50 (Pseudokirchneriella subcapitata) 1-100mg/L/72 h, NOELR (Pseudokirchneriella subcapitata) 1-10mg/L/72 h
<i>Blue-green algae toxicity (Cyanobacteria), EC50 (72hr):</i>	No data available.
Bioaccumulation:	Majority of components have potential to bio accumulate, however metabolism or physical properties may reduce the bio concentration or limit bioavailability.
Degradability:	Expected to be readily biodegradable. Oxidizes by photo-chemical reactions in air.
Soil:	No evidence of soil toxicity.
Terrestrial vertebrate:	See acute toxicity.
Terrestrial invertebrate:	No evidence of terrestrial invertebrate toxicity.
Biocidal:	No data.
Environmental effect levels:	No EELs are available for this mixture.

Section 13 - Disposal Considerations

Restrictions:	This product is not suitable for disposal by either landfill or sewers, drains, natural streams or rivers.; local council and resource consent conditions may apply.
Disposal method:	Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
Contaminated Packaging:	Disposal of contaminated packaging must comply with the hazardous Substances (Disposal) notice 2017 clause 12. Ensure that the package is incapable of containing any substance and is disposed in a manner

consistent with the requirements of the substance it contained. Reuse or recycle packaging if possible.

Section - 14 Transport Information

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

UN Number:	1223	Proper shipping name:	KEROSENE
Class(es):	3	Packing group:	III
Precautions:	Flammable Liquid	Hazchem Code:	3Y

ADG CODE:

UN Number:	1223	Proper shipping name:	KEROSENE
Class(es):	3	Packing group:	III
Precautions:	Flammable Liquid	Hazchem Code:	3Y

IMDG:

UN Number:	1223	Proper shipping name:	KEROSENE
Class(es):	3	Packing group:	III
Precautions:	Flammable Liquid	Hazchem Code:	3Y

IATA:

UN Number:	1223	Proper shipping name:	KEROSENE
Class(es):	3	Packing group:	III
Precautions:	Flammable Liquid	Hazchem Code:	3Y

Section - 15 Regulatory Information

New Zealand:

This product is an approved substances under the Hazardous Substances and New Organisms Act (HSNO) Approval Code: HSR001049, Kerosene.

All Components are list on the NZIoC.

Specific Controls

SDS	To be available within 10 minutes in workplaces storing any quantity.
Inventory	An inventory of all hazardous substances must be prepared and maintained.

Packaging	All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied.
Labelling	Must comply with the Hazardous Substances (Labelling) Notice 2017.
Emergency Plan	Threshold quantity: 1,000L
Certified Handler	Not required.
Tracking	Not required.
Bunding & Secondary Containment	Threshold quantity 1,000L
Signage	Threshold Quantity 1,000L
Location Compliance Certificate	Required if > 500L (Closed containers greater than >5L); 1,500L (closed containers up to and including >5L); 250L (open containers).
Fire Extinguisher	Threshold quantity 500L

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, Local Council Rules and Regional Council Plans.

Section 16 - Other information

Date	Reason for review
September 2021	5 yearly update

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