

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: BRAKE CLEAN

Other Names: Petroleum Spirit, Peg1425, Calite, Shellite, Pegasol 1425, X55

Recommended Use: Petroleum spirit

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 2, eye irritation Category 2, specific target organ toxicity – repeated exposure Category 2, hazardous to the aquatic environment chronic Category 2

GHS Pictograms



Signal word: DANGER

Hazard Statements:

H225: Highly flammable liquid and vapour
H320: Causes eye irritation
H373: May cause damage to organs through prolonged or repeated exposure
H411: Toxic to aquatic life with long-lasting effects.

Prevention Statements:

P210: Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P233: Keep container tightly closed
P240: Ground container and receiving equipment
P241: Use explosion-proof equipment
P242: Use non-sparking tools



P243: Take precautionary measures against static discharge
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective clothing, gloves and eye protection

Response Statements:

P314: Get medical advice/attention if you feel unwell.
P391: Collect spillage.
P303+P361+P353: IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water.
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.
P370+P378: In case of fire: Use dry chemical or alcohol foam or CO₂ to extinguish.

Storage Statements:

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

Disposal Statement:

P501: Dispose of product and containers in accordance with local regulations.

3. COMPOSITION INFORMATION

Chemical Ingredient	CAS No.	Proportion(%)
Heptane and isomers	Mixture	35 – 55
Cyclohexane	110-82-7	25 – 35
Methylcyclohexane	118-87-2	< 15
Hexane	110-54-3	< 10

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. Where there is risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs. Obtain immediate 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 symptoms continue.
Begin artificial respiration if breathing has stopped. Get immediate medical attention.

First Aid facilities

Provide eye baths and safety showers close to areas where splashing may occur.



Medical Attention

Treat according to symptoms. Gastric lavage may be indicated if ingested. Any product aspirated during vomiting may produce lung injury.

5. FIRE FIGHTING MEASURES

Flashpoint: -15°C

Flammable limits: LFL: not available UFL: not available

Extinguishing media:

Dry chemical or alcohol foam or CO₂.

Fire & Explosion hazards:

Liquid and vapours are highly flammable. Do not breathe smoke, gases or vapours generated in a fire. Expansion or decomposition of containers may lead to rupture of containers.

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.
- Wear breathing apparatus and protective gloves.
- Shut off product that may 'fuel' a fire if safe to do so.
- If safe, switch off electrical equipment until vapour hazard removed.
- 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:

Carbon dioxide, carbon monoxide.

Hazchem Code: 3YE

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures & Containment:

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

Minor spills

- Remove or eliminate all ignition sources.
- Clean up spills immediately.
- 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 labeled container suitable for flammables.
- 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.
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.



- Prevent by any means available, spillage from entering drains, sewers, watercourses, or low-lying areas.
- Eliminate sources of ignition, naked lights. No smoking.
- Increase ventilation.
- Water spray or fog may be used to disperse/absorb vapour.
- Use only spark-proof tools, e.g. shovels, and explosion proof equipment, e.g. pumps.
- Collect recoverable product into labeled contains for recycling.
- Absorb remaining product with sand, earth, or vermiculite.
- Collect solid residues and seal in labeled 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.

This product is highly flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Material will accumulate static discharge. Use grounding leads to avoid discharge (electrical spark) spark-free tools and equipment suitable for flammables. Do not use plastic buckets.

Use outdoors or in well-ventilated area. Wear personal protective equipment. Wash hands with soap and water after handling. Wash protective clothing separate to household laundry.

Conditions for safe storage:

Keep out of reach of children. Store in a cool, dry place away from direct sunlight. This product will fuel a fire in progress. Check containers periodically for leaks or distortion.

Incompatible materials:

Natural rubber, butyl rubber, EDPM, polystyrene.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

Health Exposure Standards:

Workplace Exposure Standards (WES), 2002 have been set by the Occupational Safety and Health Service, NZ Department of Labour for components in this product.

	WES-TWA	WES-STEL
Heptane	400 ppm (1640 mg/m ³)	500 ppm (2050 mg/m ³)
Cyclohexane	100 ppm (350 mg/m ³)	300 ppm (1050 mg/m ³)
Hexane ^(bio)	20 ppm (72 mg/m ³)	
Methylcyclohexane	400 ppm (1610 mg/m ³)	

Biological limit values :

None established

Engineering Controls:

Ventilation:

Use product outdoors or in well-ventilated area. The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation in confined spaces. Use explosion-proof ventilation equipment.

Personal Protective Equipment:



Respiratory Protection: Where concentrations in air may exceed the limits described in the Workplace Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type "A" filter material is considered suitable for this product.

Eye Protection: Protect eyes from splashes, aerosols, or vapour. It is recommended safety glasses with side shields or goggles be worn where this is risk of splashes.

Skin/ Body Protection:

If using product in commercial or industrial situations, wear chemical resistant gloves, e.g. PVC, nitrile rubber, also safety footwear or safety gumboots, e.g. rubber. Always wear long sleeves and long trousers or coveralls, PVC apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear colourless liquid
Odour	-	Solvent
Flash Point	°C	-17 °C
Specific gravity @ 20°C	g/ml	0.792
Vapour Pressure @ 20°C	mm Hg	180
Vapour Density @ 20°C	kPa	Not available
Explosive Limits in Air	%	2.2 - 13
Viscosity	cSt	Not available
Volatiles	%vol/vol	Not available
Alkalinity/acidity (as pH)	-	Not applicable
Solubility in Water	% w/w	Miscible

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: Sources of heat and ignition, open flames.

Hazardous decomposition products: No decomposition products except on burning. See "Fire Fighting Measures" and "Hazardous Reactions".

Hazardous reactions: Oxidizing agents, strong alkalis, strong mineral acids, bromine.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

Will irritate throat, trachea, and respiratory tract. Ingestion of small amounts may cause nausea. Ingestion of large amounts will have a narcotic effect; headaches, dizziness, euphoria, loss of appetite and possible unconsciousness. Aspiration into the lungs by ingestion or vomiting may result in chemical pneumonitis.

Eye Contact

This product may be moderately to severely irritating to eyes and may result in corneal damage if not promptly treated. Exposure to vapour concentrations of 500 -1000ppm usually is irritating to eyes.

Skin Contact

This product is mildly irritating to skin with short term contact. Prolonged or repeated exposure will increase risk



of dryness and cracking of skin.

Inhalation

Vapour concentrations above 500ppm are irritating to nose and throat. Exposure to high concentrations (above 1000ppm) result in narcotic effects; possible symptoms are headaches, dizziness, loss of co-ordination, nausea, loss of appetite. In severe case loss of unconsciousness is possible.

Chronic Effects

Prolonged or repeated exposure to skin may result in irritant contact dermatitis.

Other Health Effects Information:

Exposure to this product can increase toxicity to kidneys and liver to hydrocarbon solvents such as trichloroethylene and chloroform.

Toxicological Information:

Acetone	Rat, oral, LD ₅₀ 5800 – 8400 mg/kg
	Mouse, oral, LD ₅₀ 3000 mg/kg
	Rabbit, dermal, LD ₅₀ 20,000 mg/kg
	Rat, inhalation, LC ₅₀ (4 hour) 32,000 ppm

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity: Product is not identified as being ecotoxic to aquatic life.

Persistence/degradability: Expected to biodegrade rapidly. Considered to have negligible bioaccumulative effects.

Mobility: This product is highly volatile and will rapidly evaporate to air if released into water. Expected to leach readily in most soil types.

Other information: None

Environmental Exposure Standards:

EEL (WATER):	Not set
EEL (SOIL)	Not set
EEL (SEDIMENTS)	Not set

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Care should be taken to ensure compliance with national, regional and local authority regulations. Packaging may still contain fumes and vapours that are flammable. Ensure that empty packaging is allowed to dry. Empty packaging should be taken for recycling, recovery, or disposal through a suitably qualified or licensed contractor.

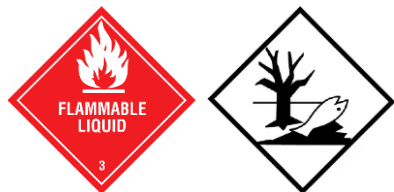
14. TRANSPORT INFORMATION

UN Number:	3295
Shipping name:	HYDROCARBONS, LIQUID, N.O.S. (dearomatised hydrocarbons)
Class:	3
Packing group:	II
Hazchem code:	3YE

Dangerous Goods Segregation



This product is classified as Dangerous Goods Class 3, packing group II.
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: Solvent (Flammable) Group Standard 2020; HSR002650
Refer www.epa.govt.nz for information on Controls.

16. OTHER INFORMATION

Issue Number: 2
Date of Issue: 18th February, 2025
Reasons for Issue: New product.
Replaces: 30th June, 2022

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 Material 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

