



# SAFETY DATA SHEET

Product Name: BRAKE CLEANER

Date of Issue: SEPTEMBER 2016

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## SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name:	<b>BRAKE CLEANER</b>		
SUPPLIER:	ECOCLEAN UTILITY AGENCIES PTY LTD		
ADDRESS:	PO Box 6224 YATALA DC 4207		
TELEPHONE:	(07) 5549 3622	FAX:	(07) 5549 3666
EMERGENCY PHONE:	13 1126 in Australia.	ABN:	72 135 037 160
Substance:	solvent	Product Use:	Solvent cleaner
Creation Date:	September 2016	Revision Date:	September 2021

## SECTION 2 – HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Poisons Schedule	S5 (LIQUID HYDROCARBONS)
Dangerous Goods	Classified as Dangerous Goods

### GHS - GLOBALLY HARMONISED SYSTEM

GHS Classification	<ul style="list-style-type: none"> <li>Flammable Liquids, Category 2</li> <li>Skin Corrosion/Irritation, Category 2</li> <li>Specific Target Organ Toxicity (Single exposure), Category 3</li> <li>Specific Target Organ Toxicity (Repeated exposure), Category 2</li> <li>Aspiration Hazard, Category 1</li> <li>Toxic to Reproduction, Category 2</li> <li>Chronic Aquatic Toxicity, Category 2</li> </ul>
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GHS Pictogram	
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GHS Signal Word	<b>DANGER</b>
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### Hazard statement(s)

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H361	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

### Precautionary statement(s): General

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.

### Precautionary statement(s): Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilation/lighting equipment.
P242	Use only non-sparking tools.



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P243	Take precautionary measures against static discharge.
P260	Do not breath fume/ gas / mist / vapours / spray.
P261	Avoid breathing mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
<b>Precautionary statement(s): Response</b>	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P370 + P378	In case of fire: Use foam/water spray/fog for extinction.
P391	Collect spillage.
<b>Precautionary statement(s): Storage</b>	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed
P403 + P235	Store in a well-ventilated place. Keep cool
P405	Store locked up
<b>Precautionary statement(s): Disposal</b>	
P501	Dispose of contents/ container in accordance with local regulations.
<b>Note</b>	
<b>IMPORTANT</b>	This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied.

## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Proportion:
Solvent naphtha (petroleum), light aliphatic	64742-89-8	>60% w/w
n-Hexane	110-54-3	10 - 30% w/w
Ethylbenzene	100-41-4	<10% w/w
Note – product contains < 0.1% benzene		
NOTE:	Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances", or have been found NOT to meet the criteria of a dangerous substance as defined in the GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS), 4th edition United Nations 2011. Listed ingredients may be below the cut-off concentrations for classification as hazardous, but are listed for information purposes and for additive effects.	



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## SECTION 4 – FIRST AID MEASURES

<b>Scheduled Poisons</b>	Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 0800 764 766).
<b>First Aid Facilities Required</b>	Eye wash station. Showering facility. Normal washroom facilities.
<b>Inhalation</b>	Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.
<b>Skin contact</b>	Immediately wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. Seek medical advice (e.g. doctor) if irritation, burning or redness persists.
<b>Eye contact</b>	Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Immediately seek medical advice (e.g. ophthalmologist) even if there are no visible injuries.
<b>Ingestion</b>	If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
<b>Advice to Doctor</b>	Treat symptomatically. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons.

## SECTION 5 – FIRE FIGHTING MEASURES

<b>Fire and Explosion Hazards</b>	Highly flammable. In use, may form flammable/explosive vapour- air mixture. Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. Vapour is heavier than air, can spread along ground and distant ignition is possible.
<b>Extinguishing Media</b>	Foam, water spray or fog, dry chemical powder or carbon dioxide. Do not use water in a jet.
<b>Fire Fighting</b>	Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition.
<b>Flash Point</b>	-30 °C (Abel)

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	HAZCHEM CODE : •3YE •3 = Alcohol resistant Foam/protein foam Y = Breathing apparatus and fire kit, Contain. Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition. Evacuate area - move upwind of fire.
<b>Occupational Release</b>	Minor spills do not normally need any special clean- up measures. Transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. For large spills, or tank rupture, consider initial evacuation distance of 200 metres in all directions. Stop leak if safe to do so. If available, use water spray to disperse vapour. Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e. g. sand, earth or vermiculite), which then can be put into appropriately labelled drums for disposal by an approved agent according to local conditions. Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e. g. sand, earth or vermiculite), which then can be put into appropriately labelled drums for disposal by an approved agent according to local conditions. Residual deposits will remain slippery. If contamination of sewers or waterways has occurred advise the local emergency services.



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<b>Personal Protection</b>	Refer section 8 of this SDS.
<b>Environmental Precautions</b>	Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly.

## SECTION 7 – HANDLING AND STORAGE

<b>Handling</b>	Highly flammable product. Avoid breathing vapours. Handle and open containers with care in a well ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment.
<b>Storage</b>	Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Exposure Limits</b>	National Occupational Exposure Limits, as published by National Occupational Health & Safety Commission: <b>Time-weighted Average (TWA):</b> None established for product. For ingredients: n-Hexane: 72mg/m <sup>3</sup> (20ppm) TWA (8hr) Solvent naphtha (petroleum), light aliphatic: 450mg/m <sup>3</sup> TWA (8hr) <b>Short Term Exposure Limit (STEL):</b> None established for product.
<b>Ventilation</b>	Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.
<b>Personal Protective Equipment</b>	Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. The following protective equipment should be available;
<b>Eye Protection</b> 	The use of face shields, chemical goggles, or safety glasses with side shield protection is recommended. Contact lenses pose a special hazard ; soft lenses may absorb irritants and all lenses concentrate them.
<b>Skin Protection</b> 	Wear overalls, boots and impervious gloves (as per AS/NZS 2161, or as recommended by supplier).
<b>Protective Material Types</b>	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.
<b>Respirator</b> 	If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.



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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Colour	Colourless
Odour	Paraffinic sweet
Boiling Point	50 - 135 °C
Freezing Point	Not available.
Vapour Pressure	Typical 34.5
Vapour Density	Not available.
Specific Gravity	0.70 - 0.80 @ 20 °C
Water Solubility	Not miscible.
pH	neutral
Flash point (°C):	-30 (Abel)
Upper/lower flammability or explosive limits (%):	1 - 7.5
Auto-ignition temperature (°C):	280 (ASTM E-659)
Volatile Organic Compounds (VOC) Content	Ca 90 % v/v.
Per Cent Volatile	Ca 90 % v/v.
Viscosity	Not available.
Odour Threshold	Not available.
Evaporation Rate	Not available.
Coefficient of Water/Oil Distribution	Not available.

## SECTION 10 – STABILITY AND REACTIVITY

Reactivity	Stable at normal temperatures and pressure.
Conditions to Avoid	Stable under normal conditions of use. Avoid heat, sparks, open flames and other ignition sources.
Incompatibilities	Strong oxidising agents.
Hazardous Decomposition	Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids, gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH EFFECTS

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

<b>Inhalation</b>	
<b>short term exposure</b>	Breathing of high vapour concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.
<b>long term exposure</b>	Danger of serious damage to health by prolonged exposure through inhalation. Repeated inhalation, or dermal exposure to n- hexane can cause peripheral neuropathy in exposed individuals. Recovery is not immediate on cessation of exposure, and the effects may progress for 2 - 3 months. Final recovery may take more than a year and may not necessarily be complete, depending on the severity of exposure. These effects are associated with n- hexane not the other hexane isomers. Concurrent exposure to n- hexane and methyl ethyl ketone (MEK) will accelerate the onset of n- hexane induced nerve damage, although MEK alone will not cause such damage. Repeated overexposure may lead to increased susceptibility to respiratory illness.
<b>Skin contact</b>	
<b>short term exposure</b>	May include burning sensation and/or a dried/cracked appearance.



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long term exposure	See inhalation.
Eye contact	
short term exposure	May include burning sensation, redness, swelling and/or blurred vision.
long term exposure	Not known.
Ingestion	
short term exposure	May include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath and/or fever.
long term exposure	Not known.
Carcinogen Status	
NOHSC	No significant ingredient is classified as carcinogenic by NOHSC.
NTP	No significant ingredient is classified as carcinogenic by NTP.
IARC	No significant ingredient is classified as carcinogenic by IARC.

## Individual Ingredient Information

### Solvent naphtha (petroleum), light aliphatic

Irritation Data	Irritating to skin. Prolonged contact may cause defatting of skin which can lead to dermatitis.
Toxicity Data	Expected to be of low toxicity - LD50 Oral (rat) > 2000mg/kg
Eye irritation	Expected to be non-irritating to eyes.
Respiratory or skin sensitisation:	Not expected to be a sensitiser.
Carcinogenicity:	Not expected to be carcinogenic.
Specific Target Organ Toxicity (STOT) – single exposure:	Not expected to be a respiratory irritant.
Specific Target Organ Toxicity (STOT) – repeated exposure:	Central nervous system: repeated exposure affects the nervous system.
Mutagenic Data	Not mutagenic.
Reproductive Effects Data	Causes foetal toxicity in animals at doses which are maternally toxic. Affects reproductive system in animals at doses which produces other toxic effects (n-Hexane).
Aspiration hazard:	Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

## SECTION 12 – ECOLOGICAL INFORMATION

General	Toxic to aquatic life. Product is not miscible with water. AS WITH ANY CHEMICAL PRODUCT, DO NOT DISCHARGE INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Inform local authorities if this occurs.	
Aquatic Toxicity		
Solvent naphtha (petroleum), light aliphatic	Chronic Aquatic Toxicity, Category 2. Toxic to aquatic life with long lasting effects. (Fish) Expected to be toxic: $1 < LC/EC/IC50 \leq 10 \text{mg/l}$	
Persistence and degradability		
Ingredient	Persistence: Water/Soil	Persistence: Air
Solvent naphtha (petroleum), light aliphatic	Readily biodegradable. Oxidises by photo-chemical reactions in air.	Readily biodegradable. Oxidises by photo-chemical reactions in air.
Bio accumulative potential		
Ingredient	Bioaccumulation	
Solvent naphtha	Has the potential to bioaccumulate.	



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(petroleum), light aliphatic	
<b>Mobility in soil</b>	
<b>Ingredient</b>	<b>Mobility</b>
Solvent naphtha (petroleum), light aliphatic	Floats on water. Absorbs on soil.

## SECTION 13 – DISPOSAL CONSIDERATIONS

	Refer to State Land Waste Management Authority. Transfer product residues to a labelled, sealed container for disposal or recovery. Waste disposal must be by an accredited contractor. Do not put down the drain. Basic solution – neutralise before disposal if large volumes, otherwise dilute with large volumes of water.
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## SECTION 14 – TRANSPORT INFORMATION

<b>Labels Required</b>			
ADG			
Marine Pollutant	No		
HAZCHEM	•3YE		
<b>Land Transport (ADG)</b>			
UN Number	1993	ADG Classification	3
Shipping Name	FLAMMABLE LIQUID, N. O. S. (contains Solvent Naptha)	ADG Subsidiary Risk	none allocated
Hazchem Code	•3YE	Packing Group	II
EPG Number	3A1	IERG Number	14
Segregation	<p>This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 3 - Flammable Liquids are incompatible in a placard load with any of the following:</p> <ul style="list-style-type: none"> <li>- Class 1, Explosives</li> <li>- Class 2. 1, Flammable Gases, if both the Class 3 and Class 2. 1 dangerous goods are in bulk</li> <li>- Class 2. 3, Toxic Gases</li> <li>- Class 4. 2, Spontaneously Combustible Substances</li> <li>- Class 5. 1, Oxidising Agents and Class 5. 2, Organic Peroxides</li> <li>- Class 6, Toxic Substances (where the flammable liquid is nitromethane)</li> <li>- Class 7, Radioactive Substances.</li> </ul>		

## SECTION 15 – REGULATORY INFORMATION

<b>Labeling Details</b>	
GHS Classification	<ul style="list-style-type: none"> <li>• Flammable Liquids, Category 2</li> <li>• Skin Corrosion/Irritation, Category 2</li> <li>• Specific Target Organ Toxicity (Single exposure), Category 3</li> <li>• Specific Target Organ Toxicity (Repeated exposure), Category 2</li> <li>• Aspiration Hazard, Category 1</li> <li>• Toxic to Reproduction, Category 2</li> </ul>





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	<ul style="list-style-type: none"> <li>Chronic Aquatic Toxicity, Category 2</li> </ul>
SUSMP	S5 POISON (liquid hydrocarbons)
ADG Code	3
AICS	All ingredients present on AICS.

## SECTION 16 – OTHER INFORMATION

Issue Date	1 <sup>st</sup> September 2016
Version Number	V 2.0
Abbreviations and acronyms	<p><b>ADG Code:</b> Australian Code for the Transport of Dangerous Goods by Road and Rail.</p> <p><b>AICS:</b> Australian Inventory of Chemical Substances.</p> <p><b>CAS Number:</b> Chemical Abstracts Service Registry Number.</p> <p><b>GHS:</b> Globally Harmonized System of Classification and Labelling of Chemicals</p> <p><b>HAZCHEM:</b> An emergency action code of numbers and letters which gives information to emergency services.</p> <p><b>HSIS:</b> Hazardous Substances Information System</p> <p><b>IARC:</b> International Agency for Research on Cancer.</p> <p><b>NOHSC:</b> National Occupational Health and Safety Commission.</p> <p><b>NTP:</b> National Toxicology Program (USA).</p> <p><b>SDS:</b> Safety Data Sheet</p> <p><b>STEL:</b> Short Term Exposure Limit.</p> <p><b>SUSMP:</b> Standard for the Uniform Scheduling of Medicines and Poisons.</p> <p><b>TWA:</b> Time Weighted Average.</p> <p><b>UN Number:</b> United Nations Number.</p>
Literature references	<p>Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice ( Safe Work Australia)</p> <p>GHS Hazardous Chemical Information List (Safe Work Australia)</p> <p>Guidance on the Classification of Hazardous Chemicals under the WHS Regulations.</p> <p>Global Harmonized System of Classification and Labelling of Chemicals (GHS)</p> <p>“Australian Exposure Standards”. Safework Australia</p> <p>Australian Code For The Transport Of Dangerous Goods By Road And Rail</p> <p>Standard for the Uniform Scheduling of Medicines and Poisons</p> <p>Material Safety Data Sheets – individual raw materials – Suppliers</p>
Disclaimer	<p>This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.</p>

End of SDS