



SAFETY DATA SHEET

SECTION 1 IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

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| Product Identifier | BITUMEN CUTTER |
| Other Names | None |
| Manufacturer's Product Code | 18160 |
| Recommended Use | Bitumen cutter |

Details of Supplier/Manufacturer

| | |
|----------|---|
| Company: | Recochem Inc. ABN: 69 010 485 999 |
| Address: | 1809 Lytton Road, Lytton, Queensland 4178 |
| Phone: | (07) 3308 5200 Fax: (07) 3308 5201 |
| Website: | www.recochem.com.au |



Emergency Telephone Numbers

| | |
|----------------------|---|
| Business Hours: | (07) 3308 5200 |
| After Hours: | 1300 131 001 |
| Poisons Information: | Australia: 13 11 26 New Zealand: 0800 764 766 |



SECTION 2 HAZARDS IDENTIFICATION

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| Hazardous chemical | <i>according to classification by Safe Work Australia</i> |
| Dangerous goods | <i>according to the Australian Code for the Transport of Dangerous Goods by Road and Rail</i> |

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| Signal Word | DANGER |
|--------------------|---------------|

| GHS Classification | Pictogram | Hazard statement |
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| Flammable Liquids, Category 3 |  FLAME | H226 Flammable liquid and vapour |
| Aspiration Hazard, Category 1 |  HEALTH HAZARD | H304 May be fatal if swallowed and enters airways |
| Carcinogenicity, Category 2 | | H351 Suspected of causing cancer |
| Specific Target Organ Toxicity (Repeated exposure), Category 1 | | H372 Causes damage to organs (central nervous system) through prolonged or repeated exposure |

Product: BITUMEN CUTTER

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| Skin Corrosion/Irritation, Category 2 |  EXCLAMATION MARK | H315 Causes skin irritation |
| Serious Eye Damage/Irritation, Category 2A | | H319 Causes serious eye irritation |
| Specific Target Organ Toxicity (Single exposure), Category 3 | | H335 May cause respiratory irritation |
| Chronic Aquatic Toxicity, Category 2 |  ENVIRONMENT | H411 Toxic to aquatic life with long lasting effects |

Precautionary statements:

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| <i>GENERAL</i> | |
| 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 |
| <i>PREVENTATIVE</i> | |
| 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 |
| P243 | Take precautionary measures against static discharge |
| P260 | Do not breathe mist/vapours/spray |
| P261 | Avoid breathing mist/vapours/spray |
| P264 | Wash thoroughly after handling |
| P270 | Do not eat, drink or smoke when using this product |
| P271 | Use only outdoors or in a well-ventilated area |
| P273 | Avoid release to the environment |
| P280 | Wear protective gloves/eye protection/face protection |
| P281 | Use personal protective equipment as required |
| <i>RESPONSE</i> | |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Rinse skin with water/shower |
| P304 + P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |
| 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 |
| P331 | Do NOT induce vomiting |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention |
| P337 + P313 | If eye irritation persists: Get medical advice/attention |

Product: BITUMEN CUTTER

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| P362 | Take off contaminated clothing and wash before reuse |
| P370 + P378 | In case of fire: Use foam/water spray/fog for extinction |
| P391 | Collect spillage |
| STORAGE | |
| 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 |
| DISPOSAL | |
| P501 | Dispose of contents/container in accordance with local regulations |

SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS**Ingredients Names and Proportions**

| Chemical Entity | CAS Number | Proportion (%) |
|---|------------|----------------|
| Naphtha (petroleum), hydrodesulphurized heavy | 64742-82-1 | 100 |
| With components: | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | <= 10 |
| 1,3,5-Trimethylbenzene | 108-67-8 | <= 10 |
| Naphthalene | 91-20-3 | <= 10 |
| Xylene, Mixed Isomers | 1330-20-7 | <= 10 |
| Note – contains < 0.1% benzene | | |

SECTION 4 FIRST AID MEASURES**Description of necessary first aid measures**

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| Inhalation: | Keep victim calm and remove to fresh air if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. |
| Skin Contact: | If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. |
| Eye Contact: | If in eyes, hold eyes open, flood with water for at least 15 minutes. If irritation persists seek medical attention. |
| Ingestion: | 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. |

Symptoms caused by exposure

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| Inhalation: | Breathing of high vapour concentrations may cause central nervous system depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continuous inhalation may result in unconsciousness and death. |
| Skin: | May include redness and cracking. |
| Eye: | May include redness and swelling. |
| Ingestion: | May include headache, nausea, coughing and shortness of breath. |

Medical attention and special treatment

Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing equipment

Foam, water spray or fog, dry chemical powder or carbon dioxide. Do not use water in a jet.

Specific hazards arising from the chemical

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.

Special protective equipment and precautions for fire fighters

Wear full protective clothing and self-contained breathing apparatus. Hazchem code 3Y.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment.

Environmental precautions

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.

Methods and materials for containment and cleaning up

For small spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

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. Flameproof equipment necessary in area where chemical is being used. Vapours may accumulate in low or confined areas.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near aerosols, strong oxidants and corrosives.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures

In the absence of data from National Occupational Health & Safety Commission (NOHSC) Worksafe Australia use -
Mineral Spirits 150-200 HSPA: 350mg/m³ TWA (8hr)

Biological monitoring

No biological limit allocated.

Engineering controls

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.

Product: BITUMEN CUTTER**Individual protection measures**

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| Eye and face protection: | Wear safety goggles. |
| Skin protection: | Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes. |
| Respiratory protection: | 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. |
| Thermal hazards: | Not applicable. |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance: | Colourless clear liquid |
| Odour: | Aromatic |
| Odour threshold (ppm): | Data not available |
| pH: | Data not available |
| Melting point/freezing point (°C): | Data not available |
| Initial boiling point and boiling range (°C): | Typical 145 - 300 |
| Flash point (°C): | 38 (Abel) |
| Evaporation rate (Butyl acetate = 1): | Data not available |
| Flammability: | Flammable |
| Upper/lower flammability or explosive limits (%): | 1.0 - 6.0 |
| Vapour pressure (kPa @ 20°C): | Typical 0.3 |
| Vapour density (air = 1 @ 15°C): | 4.35 |
| Density (g/ml @ 15°C): | Typical 0.80 |
| Solubility (kg/m ³): | Not miscible with water |
| Partition coefficient: n-octanol/water: | Data not available |
| Auto-ignition temperature (°C): | Typical 230 |
| Decomposition temperature (°C): | Data not available |
| Kinematic viscosity (mm ² /s @ 25°C): | Data not available |

SECTION 10 STABILITY AND REACTIVITY**Reactivity**

Stable under normal conditions of use.

Chemical stability

Stable under normal conditions of use.

Product: BITUMEN CUTTER**Possibility of hazardous reactions**

Stable under normal conditions of use.

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

Incompatible materials

Strong oxidising agents.

Hazardous decomposition products

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

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| Acute toxicity: | Expected to be of low toxicity - LD50 Oral (rat) > 2000 mg/kg LC50 Inhalation greater than near-saturated vapour concentration (rat,4h) LD50 Dermal (rabbit) > 2000 mg/kg |
| Skin corrosion/irritation: | Mild irritant. Prolonged contact may cause defatting of skin which can lead to dermatitis. |
| Serious eye damage/irritation: | Mild irritant. |
| Respiratory or skin sensitisation: | Not expected to be a sensitiser. |
| Germ cell mutagenicity: | Not expected to be mutagenic. |
| Carcinogenicity: | Naphthalene - Classified by the International Agency for Research on Cancer (IARC) as a Group 2B. Group 2B – The agent is possibly carcinogenic to humans. |
| Reproductive toxicity: | Not expected to impair fertility. |
| Specific Target Organ Toxicity (STOT) – single exposure: | Inhalation of vapours or mists may cause irritation to the respiratory system. |
| Specific Target Organ Toxicity (STOT) – repeated exposure: | Central nervous system: repeated exposure affects the nervous system. Effects seen at high doses only. Auditory system: prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss. |
| Aspiration hazard: | Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. |

SECTION 12 ECOLOGICAL INFORMATION**Ecotoxicity**

Acute toxicity:

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| Fish – | Expected to be harmful: 10 < LC/EC/IC50 <= 100mg/l |
| Aquatic invertebrate – | Expected to be harmful: 10 < LC/EC/IC50 <= 100mg/l |
| Algae – | Expected to be toxic: 1 < LC/EC/IC50 <= 10mg/l |
| Microorganisms – | Expected to be harmful: 10 < LC/EC/IC50 <= 100mg/l |

Chronic toxicity:

| | |
|------------------------|--------------------|
| Fish – | Data not available |
| Aquatic invertebrate – | Data not available |

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|------------------|--------------------|
| Algae – | Data not available |
| Microorganisms – | Data not available |

Persistence and degradability

Readily biodegradable. Oxidises by photo-chemical reactions in air.

Bioaccumulative potential

Has the potential to bioaccumulate.

Mobility in soil

Floats on water.

Other adverse effects

Data not available.

SECTION 13 DISPOSAL CONSIDERATIONS

Ensure waste disposal conforms to local waste disposal regulations.

SECTION 14 TRANSPORT INFORMATION

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| UN number: | 1223 |
| Proper shipping name: | Kerosene |
| Australian Dangerous Goods class: | 3 |
| Australian Dangerous Goods packing group: | III |
| Hazchem code: | 3Y |

SECTION 15 REGULATORY INFORMATION

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|---|--------|
| Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule: | 5 |
| Australian Inventory of Chemical Substances (AICS): | Listed |
| Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76): | 15 |

SECTION 16 OTHER INFORMATION

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|---------------------------|-------------------------------|
| Date of preparation: | 03/07/2017 |
| Revision number: | 6 |
| Changes in this revision: | Updated hazard classification |

This SDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. Recochem cannot anticipate or control the conditions under which the product is used, so prior to usage each user must assess and control the risks associated with their use of the product. Users should also consult the relevant legislation governing the use and storage of this product. We make no warranties, express or implied, and assume no liability in connection with any use of information contained within this document. If clarification or further information is needed, the user should contact Recochem on (07) 3308 5200.
