Material Safety Data Sheet
BLACKJACK QD TROWELABLE PUTTY

Bituminous Products Pty Ltd
33 Violet Street
REVESBY NSW 2212

ABN No: 19 106 887 094
Business Phone: 02 9772 4433
Facsimile Phone: 02 9792 1016

EMERGENCY CONTACT: Neil Morcombe (Bus) 02 9772 4433 (A/H) 0414 499 402

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME: Blackjack Quick Dry Trowelable
UN No.: 1999
OTHER NAMES:
MANUFACTURER'S PRODUCT CODE: 220-5010
PACKAGING GROUP: III
METHOD OF APPLICATION: Trowel or knife
POISONS SCHEDULE: N/A
RECOMMENDED USE: Anticorrosive, insulating and waterproofing paint

Section 2: HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION:
Classified as hazardous according to criteria of NOHSC

RISK PHRASES:
R10 Flammable.
R67 Vapours may cause drowsiness and dizziness.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY PHRASES:
S9 Keep container in a well-ventilated place.
S51 Use only in well ventilated areas.
S7/9 Keep container tightly closed and in a well-ventilated place.
S21 When using, do not smoke.
S23 Do not breathe fumes/vapour/spray.
S29 Do not empty into drains.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.
S39 Wear eye/face protection.
Material Safety Data Sheet
BLACKJACK QD TROWELABLE PUTTY

Classified as hazardous according to criteria of NOHSC.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>PROPORTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BITUMEN</td>
<td>(8052-42-4)</td>
<td>45 - &lt; 55 %</td>
</tr>
<tr>
<td>Xylenes</td>
<td>(179601-23-1)</td>
<td>20 - &lt; 30 %</td>
</tr>
<tr>
<td>KAOLIN</td>
<td>(1332-58-7)</td>
<td>20 - &lt;30%</td>
</tr>
<tr>
<td>PROPRIETARY ADDITIVES</td>
<td>n/a</td>
<td>&lt;5%</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

FIRST AID

SWALLOWED: Do not induce vomiting. Give a glass of water. SEEK MEDICAL AID.

EYES: Flush thoroughly with water for at least 15 minutes. IF IRRITATION PERSISTS, SEEK MEDICAL AID.

SKIN: Remove contaminated clothing. Wash skin thoroughly with soap and water.

INHALATION: In case of accident by inhalation: remove casualty to fresh air and keep at rest. Apply artificial respiration if not breathing. SEEK MEDICAL AID.

FIRST AID FACILITIES: First Aid kit to be located on site at all times.

ADVICE TO DOCTOR: Product may be removed from skin using cotton wool pads soaked in castor oil or hand cleaner. Treatment should be directed at the control of symptoms/conditions.

Section 5: Fire Fighting Measures

FIRE AND EXPLOSION HAZARD:

Closed containers may explode when exposed to extreme heat (fire). This product will emit flammable vapours if exposed to extreme heat. Will produce toxic fumes when burning.

FLAMMABILITY - The product is flammable and may be ignited by flame, sparks or non-flameproof electrical equipment at temperatures above its flash point. Do not use close to ignition sources or in unventilated areas.

HAZCHEM CODE - 2W
Material Safety Data Sheet
BLACKJACK QD TROWELABLE PUTTY

Classified as hazardous according to criteria of NOHSC.

FIRE EXTINGUISHING MEDIA -
Dry chemical, foam, carbon dioxide, and water fog.

SPECIAL FIRE FIGHTING PROCEDURES -
As for Cutback Bitumen. Fire fighters should use breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS -
Bitumen products give off dense vapours when heated strongly. Vapours may cause headaches, dizziness, irregular breathing and confusion when inhaled.

Section 6: Accidental Release Measures

STEPS TO TAKE TO MINIMISE A SPILL OR LEAK
- Do NOT allow the product to enter drains or watercourses.
- Clean up crews should wear protective clothing i.e., PVC gloves, safety shoes, eye protection. If there is no risk involved, stop leaks.
- Stay upwind; remove any source of ignition.
- Wherever possible spill material should be recovered into a sound container.
- For small spills, the residue should be absorbed onto a suitable absorbent such as earth, sand or proprietary absorbent.
- For large spills, contain the spill by using booms, etc. Inform regulatory authorities immediately (e.g. Fire Brigade, EPA).

Section 7: Handling and Storage

DANGEROUS GOODS CLASS: 3 PG III SUB RISK: None

Storage should be as for a manufactured packaged product containing class 3 flammable liquid. Store in areas/building designed to comply with the appropriate dangerous goods regulations. Protect from physical damage. Keep container closed when not in use. Do not use pressure to empty drums.

Transport should be in accordance with the Australian Dangerous Goods Code for the transport of dangerous goods by road and rail.

Section 8: Exposure Controls, Personal Protection

National Exposure Standards: There is no Australian Workplace Standard for this product. Provide adequate ventilation. If using indoors, keep windows and doors open during use. Keep containers closed when not in use.
Material Safety Data Sheet
BLACKJACK QD TROWELABLE PUTTY

Classified as hazardous according to criteria of NOHSC.

ENGINEERING CONTROLS:

a) Process modification to eliminate substance ï Not Applicable
b) Segregation of processes from personnel and / or distance ï use and store well away from naked flames and ignition sources.
c) Vessel Containment Controls ï Store and use in closed vessels where possible to avoid solvent release to atmosphere and work areas.
d) Enclosure of sources of substances to the maximum extent possible - Not for use in confined spaces without appropriate extraction or ventilation.
e) Mechanical handling to reduce human contact with substance - The use of forklifts to load/unload drums and/or pallets should be used whenever possible.
f) Is a Local Exhaust Ventilation System required? ï Where possible, vapours are to be extracted.
g) Dilution Ventilation - In open areas mechanical ventilation is not normally required. In enclosed areas, provide sufficient dilution exhaust ventilation to minimise exposure levels and flammable vapour concentrations.

PERSONAL PROTECTION:

Respiratory protection - In poorly ventilated areas, a respirator suitable for organic vapours should be used. Air supplied respirators should be used in areas with inadequate oxygen and high vapour concentrations.

Glove type - PVC gloves should be used when handling material.

Eye protection - Use close fitting chemical safety goggles, otherwise use safety glasses fitted with side shields. If splashing is possible use a face shield over safety glasses as added protection.

Clothing protection ï Wear industrial-type work clothing and safety footwear.

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>PHYSICAL DESCRIPTION/PROPERTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE: Black paint ï characteristic odour</td>
</tr>
<tr>
<td>PACK SIZE(S): 20 lt, 205 lt</td>
</tr>
<tr>
<td>BOILING POINT (°C): &gt; 149</td>
</tr>
<tr>
<td>MELTING POINT (°C): Not Applicable</td>
</tr>
<tr>
<td>VAPOUR PRESSURE (KILOPASCALS) : &lt;3.3</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY @ 25 °C: 0.92</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER (% BY WT.): Not soluble</td>
</tr>
<tr>
<td>FLASH POINT (°C)-METHOD: 38 (closed cup)</td>
</tr>
<tr>
<td>FLAMMABILITY LIMITS IN AIR (% VOLUME): LOWER 0.4 UPPER 7</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet
BLACKJACK QD TROWELABLE PUTTY

Classified as hazardous according to criteria of NOHSC.

Section 10: Stability and Reactivity

OTHER PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHOCK SENSITIVITY:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>OXIDISING PROPERTIES:</td>
<td>Avoid Oxidising Agents</td>
</tr>
<tr>
<td>AUTOIGNITION TEMPERATURE:</td>
<td>230 C</td>
</tr>
<tr>
<td>SOLUBILITY in ORGANIC SOLVENTS</td>
<td>Soluble</td>
</tr>
<tr>
<td>% VOLATILE ORGANIC COMPOUNDS:</td>
<td>0.042</td>
</tr>
<tr>
<td></td>
<td>= 16.0</td>
</tr>
<tr>
<td>EVAPORATION RATE (BUTYLACETATE=1):</td>
<td>Medium</td>
</tr>
<tr>
<td>pH:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CORROSIVENESS:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>REACTIVITY:</td>
<td>stable</td>
</tr>
<tr>
<td>BULK DENSITY:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>ODOUR THRESHOLD:</td>
<td></td>
</tr>
<tr>
<td>VAPOUR DENSITY (AIR=1)</td>
<td></td>
</tr>
</tbody>
</table>

Section 11: Toxicological Information

**National Exposure Standards:** There is no Australian Workplace Standard for this product.
Provide adequate ventilation. If using indoors, keep windows and doors open during use. Keep containers closed when not in use.

**EXPOSURE STANDARDS:**

TWA for bitumen vapours = 5mg/M³
TLV for Xylenes = 100 ppm  TWA 80ppm, STEL 150ppm

**HEALTH EFFECTS:**

**ACUTE:**

**SWALLOWED:** Ingestion of material may cause gastrointestinal disturbance, including irritation, nausea and vomiting.
**EYES:** Direct eye contact may cause irritation and or corneal changes.
**SKIN:** Contact with skin may result in skin reactions.
**INHALATION:** Inhalation of vapours may cause headaches and/or dizziness. Overexposure to vapour may result in respiratory tract irritation. Threshold limit value for Liquid Hydrocarbons is approx. >100 ppm.

**CHRONIC:** Over exposure to high vapour concentration may cause irregular breathing, collapse and coma.
Material Safety Data Sheet
BLACKJACK QD TROWELABLE PUTTY

Classified as hazardous according to criteria of NOHSC.

Section 12: Ecological Information

Do not allow product to enter waste water, rivers or creeks.
Not determined as a marine pollutant. Will form a slick on top of water until solvent evaporates.
Residual bitumen is non-toxic and non-soluble in water.

Section 13: Disposal Considerations

Disposal Methods:
Wherever possible, reprocess or recycle any reclaimed material to reduce waste.
- Contained spills need to be soaked up and disposed into a metal container (avoid using plastic containers).
  - Once dry, the absorbed material may be disposed of as solid waste in conformity with the requirements of the Regulatory Authorities.

Section 14: Transport Information

Road and Rail Transport:
U.N. Number: 1999
Proper Shipping Name: Tars, liquid, including oils and cutback bitumen
DG Class: 3
Hazchem Code: 2W
Packing Group: III

Section 15: Regulatory Information

Australian Dangerous Goods Code
Class: Class 3 PG III
U.N. Number: 1999
Proper Shipping Name: Cutback Bitumen

SUSDP
Poisons Schedule: S5

Storage
AS1940 AND AS3833 FOR STORAGE REQUIREMENTS
Material Safety Data Sheet
BLACKJACK QD TROWELABLE PUTTY

Classified as hazardous according to criteria of NOHSC.

Section 16: Other Information

Contact Person: General Manager, Bituminous Products Pty Ltd
02 9772 4433
After hours 0414 499 402

This Material Safety Data Sheet has been complied in accordance with the Worksafe Australia National Code of Practice for the preparation of Material Safety Data Sheets (NOHSC: 2011 (2003)).
Where applicable specific chemical composition details are provided to allow the product to be classified according to UN Number, HAZCHEM coding etc.
The information contained herein is based on the data available to BITUMINOUS PRODUCTS PTY LTD from both our technical sources and from recognized published references and is believed to be both accurate and reliable. BITUMINOUS PRODUCTS PTY LTD has made no effort to censor nor to conceal deleterious aspects of this product. Since we cannot anticipate or control the many different conditions under which this information and our products may be used, each user should review these recommendations in the specific context of the intended application and confirm whether they are appropriate.
Due care should be taken to make sure that the use or disposal of the product is in compliance to the appropriate Federal, State, and Local Government regulations.

END OF MSDS