SAFETY DATA SHEET
POTASSIUM CARBONATE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

PRODUCT NAME: POTASSIUM CARBONATE
APPLICATIONS: FOR PREPARATION OF BRINE FOR WATER-BASED DRILLING FLUIDS
EMERGENCY TELEPHONES: 44 (0)1224 720000 [24 hours]
SUPPLIER: BAKER HUGHES DRILLING FLUIDS
BAKER HUGHES BUILDING
STONEWOOD PARK NORTH
DYCE, ABERDEEN. AB21 7EA
TELEPHONE: 44 (0)1224-720000

2. COMPOSITION/INFORMATION ON INGREDIENTS:

<table>
<thead>
<tr>
<th>INGREDIENT NAME: POTASSIUM CARBONATE</th>
<th>EINECS</th>
<th>CAS No.:</th>
<th>CONTENT</th>
<th>SYMBOL</th>
<th>RISK:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>209-529-3</td>
<td>584-08-7</td>
<td>100 wt%</td>
<td>Xn</td>
<td>22, 36/37/38</td>
</tr>
</tbody>
</table>

The full text for all R-phrases are shown in section 16

3. HAZARDS IDENTIFICATION:

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

4. FIRST AID MEASURES:

INHALATION: Move the exposed person to fresh air at once. Rinse nose and mouth with water. Rest and keep warm. Get medical attention if adverse symptoms develop or persist.

INGESTION: DO NOT INDUCE VOMITING! Immediately rinse mouth and provide fresh air. Drink plenty of water. Contact physician.

SKIN: Remove contaminated clothing and shoes and thoroughly clean before reuse. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

EYES: Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes and get medical attention.

5. FIRE FIGHTING MEASURES:
6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL:
Wear suitable protective clothing, gloves and safety goggles. For further information on suitable protective clothing see Section 8 of the safety data sheet "Exposure Controls and Personal Protection".

PRECAUTIONS TO PROTECT ENVIRONMENT:
Prevent contamination of soil and water. Prevent spilled product or wash water from spreading or entering into drains, ditches or rivers by using sand, earth, or appropriate barriers.

SPILL CLEANUP METHODS:
Wear necessary protective equipment. Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water. Do not let washing down water contaminate ponds or waterways. See Section 13, Disposal Considerations, for information regarding the disposal of contained spills.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS:
Avoid spilling, skin and eye contact. Avoid creating dust during use. Protective measures during handling are detailed in Section 8 of this Safety Data Sheet.

STORAGE PRECAUTIONS:
Keep in cool, dry, ventilated storage and closed containers. Keep separate from food, feedstuffs, fertilizers and other sensitive material.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT COMMENTS:
No exposure limits noted for ingredient(s).

PROTECTIVE EQUIPMENT:

VENTILATION:
No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

RESPIRATORS:
No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. If excessive contamination exists, Wear suitable dust mask.

PROTECTIVE GLOVES:
Use protective gloves made of: Rubber, neoprene or PVC.

EYE PROTECTION:
Wear safety glasses or goggles at all times.

OTHER PROTECTION:
Wear coveralls and rubber boots.
9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Granular, Powder, dust.
COLOUR: White.
ODOUR/TASTE: Odourless or no characteristic odour.
SOLUBILITY DESCRIPTION: Very soluble in water. Insoluble in organic solvents.
BOILING POINT (°C, interval): Decomposes
PRESSURE: 
MELT./FREEZ. POINT (°C, interval): 891
DENSITY/SPECIFIC GRAVITY (g/ml): 2.29
pH-VALUE, DILUTED SOLUTION: 12
FLASH POINT (°C): Not applicable
AUTO IGNITION TEMP. (°C): N/A
FLAMMABILITY LIMIT - LOWER(%): N/A
FLAMMABILITY LIMIT - UPPER(%): N/A

10. STABILITY AND REACTIVITY:

STABILITY: Normally stable.
CONDITIONS TO AVOID:
Avoid contact with acids. Avoid contact with calcium hydroxide (lime) which generates potassium hydroxide (caustic potash). Avoid wet and humid conditions.
HAZARDOUS POLYMERIZATION:
Will not polymerize.
HAZARDOUS DECOMP. PRODUCTS:
Carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION:

TOXIC DOSE - LD 50: 1870.00 mg/kg (oral rat)
INHALATION: Dust may irritate respiratory system or lungs. May cause shortness of breath and coughing.
SKIN: Irritating to skin. Prolonged or repeated exposure may cause severe irritation.
EYES: Irritating to eyes.

12. ECOLOGICAL INFORMATION:

ECOLOGICAL INFORMATION:
Product is on the OSPAR PLONOR List i.e. Poses little or no risk to the environment.
MOBILITY: This product will disperse readily in bodies of water or in wet soil.
BIO ACCUMULATION: Does not bioaccumulate.
DEGRADABILITY:
This material is inorganic and therefore is not subject to biodegradation.
ACUTE FISH TOXICITY: Expected to have a low toxicity to aquatic marine organisms.
WATER HAZARD CLASSIFICATION:
UK OCNS group E.
13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS:
Dispose of unused material as Special (Hazardous) Waste. Dispose of using licenced waste hauliers and disposal contractors.

14. TRANSPORT INFORMATION:

ROAD TRANSPORT:
ROAD TRANSPORT NOTES: Not Classified for Road Transport

RAIL TRANSPORT:
RAIL TRANSPORT NOTES: Not Classified for Rail Transport

SEA TRANSPORT:
SEA TRANSPORT NOTES: Not Classified for Sea Transport

AIR TRANSPORT:
AIR TRANSPORT NOTES: Not Classified for Air Transport

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY:

RISK PHRASES: R-22 Harmful if swallowed. R-36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY PHRASES: S-22 Do not breathe dust. S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S-28 After contact with skin, wash immediately with plenty of water. S-37/39 Wear suitable gloves and eyewear protection. S-60 This material and its container must be disposed of as hazardous waste.


16. OTHER INFORMATION:

REVISION COMMENTS: Sections changed since last update: 2, 3, 4, 5, 6, 7, 8, 10, 11, 15.

ISSUED BY: Melanie Thatcher (Tel 44-(0)1224-408173)

REVISION DATE: 23 August 2004

REV. No./REPL. SDS GENERATED: 30 August 2002

R-PHRASES (Full Text): R-22 Harmful if swallowed. R-36/37/38 Irritating to eyes, respiratory system and skin.
DISCLAIMER:
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