

MATERIAL SAFETY DATA SHEET

according to EU Directive 93/112/EC

WATER REPELLENT

Version: 2

Print date: 24.5.04

**1. Identification of Substance/Preparation and Company**

Product Name Water repellent
 Company Biokil Crown Ltd
 7 Stadium Ind Park, Long Eaton
 Nottingham, NG10 2DD
 Telephone 0115 946 0060
 Fax 0115 946 9767
 Emergency Telephone 07967 10 71 95

2. Composition / Information on ingredients

COMPOSITION	CAS No.	EC No.	Weight %	Symbols	Risk Phrases
Low Odour White Spirit	64742-82 1	265-185-1	93	Flammable	R10-22-38-52/53
Poly Oxo Aluminium Stearate	64742 88 7	265 191 7	07	Flammable/Harmful	R10 65 62

3. Hazards identification

Flammable. Harmful if swallowed. Irritating to skin

4. First aid measures

Inhalation Remove to fresh air. Fumes cause irritation of nose or throat.
 Eye Contact Wash out with water for several minutes. If redness and/or irritation persists, seek medical advice.
 Skin contact Wash with plenty of soap and water
 Ingestion Rinse the mouth (do not swallow) and give water or milk to drink. Seek medical advice. DO NOT INDUCE VOMITING.
 Other Information Treat symptomatically

5. Fire fighting measures

Suitable: All extinguishing agents can be used.
 Not suitable: If there is a fire close by use suitable extinguishing agents.
 Specific hazards: Aqueous liquid. Does not present any particular risk in the event of a fire. Nevertheless, following the evaporation of water, the residue may burn: Toxic and highly flammable gases are released (explosion hazard). Hazardous dust is released.
 Specific fire fighting methods: Cool down the containers/equipment exposed to heat with a water spray.
 Protection of fire-fighters: Self contained breathing apparatus.

6. Accidental release measures

Suitable extinguishing media Dry powder or foam. For small fires use CO₂ Never use water jet. Flash Point 40°C
 Special Protective Equipment For fires in confined spaces, use breathing apparatus.

7. Handling and storage

Personal Precautions Wear suitable protective clothing appropriate to the amount involved, which may include eye/face protection, PVA or synthetic rubber gloves, protective footwear, overalls.
 Environmental Precautions Do not allow to enter public sewers and watercourses. If this cannot be avoided, inform the appropriate authority.
 Clean Up Procedures Absorb in dry sand or earth or similar absorbent and shovel into a suitable closed container for disposal according to item 13.

MATERIAL SAFETY DATA SHEET

according to EU Directive 93/112/EC

WATER REPELLENT

Version: 2

Print date: 24.5.04

**8. Exposure controls / personal protection**

Where prolonged or repeated exposure is likely, protective clothing should be worn, including eye protection and PVC or synthetic rubber gloves.

Wash hands and exposed skin before meals and after work. Do not eat, drink or smoke whilst handling the product. Do not wear contaminated clothing. Ventilate confined spaces thoroughly.
EXPOSURE LIMITS TEL for solvent: 300ppm (1740mg/m³) (8 hr TWA)

9. Physical and chemical properties

Appearance liquid	Clear, colourless	Oxidising properties	None
Odour	Paraffinic	Vapour pressure	3 mm Hg @ 20°C
PH	Not relevant	Relative density	0.772 (15°C)
Boiling Point	160° to 200°C	Bulk density	Not relevant
Melting point	Not relevant	Viscosity	1.24cS@20°C
Flash point	40°C	Solubility	Insoluble in water
Autoignition temperature	230°C	Partition coefficient	No data
Explosive properties	LEL 0.6%, UEL 8.0%	Other data	

10. Stability and reactivity

STABILITY	Stable under normal conditions of use
CONDITIONS TO AVOID	High temperatures (flash point 40°C)
MATERIALS TO AVOID	Strong oxidising agents

11. Toxicological information

Toxicity following a single exposure to high levels of the solvent compound is of a low order, Prolonged and repeated contact may cause drying of the skin and possibly dermatitis. Prolonged inhalation of spray mist may cause inflammation of the lungs. The major hazard is lung damage from aspiration – medical supervision for 24-48 hours is recommended if aspiration could have occurred. The Permethrin may cause a stinging or burning sensation on the skin (without lesions).

LD50 oral (rat) >5g/kg

LD50 dermal (rabbit) >5g/kg

12. Ecological information

MOBILITY	The solvent is volatile and the active ingredient decomposes in contact with water, becoming fixed in the soil.
DEGRADABILITY	Biodegrades slowly. If admitted with care into adapted bio-treatment plants, no adverse effects on the live sludge are to be expected.
ACCUMULATION	There is no evidence for bioaccumulation or biomagnifications
ECOTOXICITY	Likely to be moderately toxic (TLm96 1-10mg/litre) Marine pollutant (IMDG code)

MATERIAL SAFETY DATA SHEET

according to EU Directive 93/112/EC

WATER REPELLENT

Version: 2

Print date: 24.5.04

**13. Disposal considerations**

Disposal of product	Chemical residues are normally regarded as Special Waste. Dispose of in accordance with local and national regulations. Can be burned in domestic refuse incinerators in accordance with local regulations.
DISPOSAL OF PACKAGING	Uncleaned packaging should be treated as for the product. If thoroughly rinsed, it may be treated as general waste for incineration or landfill, according to regulations.

14. Transport information

UN No	1993
PROPER SHIPPING NAME	FLAMMABLE LIQUID, NOS. Bio-Kil Solvent-Based DPC fluid contains 956% white spirit
EMERGENCY ACTION CODE	3Y
ADR/RID	Class 3 Item 31 (c)
IMCO	Class 3.3 IMDG Code page MFAG Table No.
	EmS No
ICAO/IATO	Class 3.2
PACKAGING GROUP	3
LABEL	Flammable, Marine pollutant

15. Regulatory information

DO NOT APPLY in the presence of naked flames, hot surfaces or unprotected electrical equipment. ENSURE ADEQUATE VENTILATION when applying. WEAR SUITABLE PROTECTIVE CLOTHING, NAMELY OVERALLS AND SYNTHETIC GLOVES when handling. WASH SPLASES from skin and eyes immediately. WASH HANDS AND EXPOSED SKIN before meals and after work. WHEN USING, DO NOT EAT DRINK OR SMOKE. CHILDREN AND PETS SHOULD BE KEPT AWAY FROM TREATED AREAS FOR 48 HOURS OR UNTIL DRY. VENTILATE CONFINED SPACES THOROUGHLY. AVOID CONTACT WITH PLANT LIFE. KEEP OUT OF REACH OF CHILDREN. IF SWALLOWED seek medical advice immediately and show the container or label. THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

Refer to other relevant legislations such as the Health and Safety at Work etc Act (HSWA) < The Control of substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

The Information contained in this safety data sheet does not constitute the user's own assessment of workplace risk as required by health and safety legislation.

16. Other Information

The information contained in this data sheet is to the best of our knowledge accurate at the date of publication, but we cannot accept responsibility that it is sufficient or correct in all cases.

The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

Abbreviations: OES – Occupational Exposure Standard. STEL - A short term Exposure Limited. LTEL – Long Term Exposure Limited. TWA - Time Weighted (8 Hour) average. LEL Lower Exposure Limit. UEL – Upper Exposure Limit.