SAFETY DATA SHEET

Alkad BWP

Low Foam Caustic Detergent Powder

Internationally and Independently Tested

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER	Sodium Hydroxide Powder Mixture
TRADE NAME	Alkad BWP
RECOMMENDED USE	Low foaming caustic detergent powder
RESTRICTIONS ON USE	Reserved for Industrial and Professional Use
SUPPLIER DETAILS	Sentratek Holdings Pty (Ltd) 24 Lansdowne Place Central Port Elizabeth South Africa
EMERGENCY PHONE NUMBER	+27 41 586 1400 (08:00 to 17:00 - Monday to Friday) +27 83 648 4117 (24 Hours)

2. HAZARDS IDENTIFICATION

CLASSIFICATION	Corrosive
LABEL ELEMENTS	
HAZARD STATEMENTS	Danger! Causes severe burns. Can cause permanent eye damage. May be fatal if swallowed. Reacts with acids and other materials.
PRECAUTIONARY STATEMENTS	Keep locked up and out of reach of children. In case of contact with eyes or skin, rinse immediately with plenty of water and seek medical attention. Wear suitable gloves and eye/face protection.
OTHER HAZARDS	Slippery conditions on spillage. Avoid dust inhalation.

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

CHEMICAL IDENTITY	Sodium Hydroxide	
COMMON NAME / SYNONYMS	Caustic Soda Flake	
CAS NUMBER	Sodium Hydroxide	1310-73-2

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EC NUMBER	Sodium Hydroxide	215-185-5
HAZARDOUS COMPONENTS		
CHEMICAL IDENTITY	CONCENTRATION RANGE	HAZARD
Sodium Hydroxide	85 - 95 %	C; R35

4. FIRST AID MEASURES

PRODUCT IN EYE	Hold the eyelids apart and wash/flush the eyes gently with large amounts of water for at least 15 minutes. Seek immediate medical attention.
PRODUCT ON SKIN	Immediately wash skin with copious amounts of water while removing contaminated clothing. Seek immediate medical attention.
PRODUCT INGESTED	Seek immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person. Give large quantities of water if available.
PRODUCT INHALED	Remove the individual to a well-ventilated area and get immediate medical attention. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Product is not flammable. Use extinguishing media (E.g. CO2 / Water / Foam / Dry Powder) suitable for surrounding fire.
SPECIAL HAZARDS	Heat generated in reaction with acids, water, organohalogen compounds, nitro- and chlor-organic compounds.
PROTECTIVE CLOTHING	Full protective suit with positive breathing apparatus.
OTHER INFORMATION	Will release hydrogen gas in contact with aluminium, zinc, tin and their alloys.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Avoid contact with skin. Wear suitable protective equipment gloves and goggles. Slippery conditions will prevail. Avoid inhalation of dust.	
ENVIRONMENTAL PRECAUTIONS	Prevent run-off into sewers or any ground or surface water-way. Sweep up powder.	
CLEAN-UP METHODS	Small Spills	Transfer to containers for disposal. Wash away residues with large amounts of water.
	Large spills	Sweep up powder. Transfer to non-leaking containers for disposal. Remaining material may be diluted with water. Seek assistance of accredited disposal company to assist with disposal.

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7. HANDLING AND STORAGE

HANDLING/STORAGE PRECAUTIONS	Wear necessary protective clothing. Store in a cool, dry well ventilated area. Store separate from incompatibles.
SUITABLE MATERIALS	Store in plastic containers or polyprop bags.
UNSUITABLE MATERIALS	Keep away from acids, aluminium, zinc or materials galvanized with zinc.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE STANDARDS	ACGIH	TLV = 2 mg/m^3
ENGINEERING CONTROL MEASURES	Safety showers. Adequate ventilation.	
PERSONAL PROTECTION	RESPIRATORY	Dust Mask.
	HAND	Chemically resistant gloves (Vinyl / Neoprene).
	EYE	Face shield or goggles.
	SKIN	Overalls / plastic apron / gum boots.
OTHER PROTECTIVE MEASURES	None.	

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	PHYSICAL STATE	Coarse powder.
	COLOUR	White to brown.
ODOUR		Bland.
ODOUR THRESHOLD		Not available.
PH		>13
MELTING POINT / FREEZING POINT		Not available.
INITIAL BOILING POINT		Not applicable.
BOILING RANGE		Not applicable.
FLASH POINT		Not applicable.
EVAPORATION RATE		Not applicable.
FLAMMABILITY(SOLID, GAS)		Non-flammable.
UPPER/LOWER FLAMMABILITY		No data available.
EXPLOSIVE LIMITS		Not applicable.
VAPOUR PRESSURE		Not applicable.

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VAPOUR DENSITY	Not applicable.
RELATIVE DENSITY	Not applicable.
SOLUBILITY - WATER	Infinitely soluble.
SOLUBILITY - SOLVENT	Insoluble.
PARTITION COEFFICIENT: N-OCTANOL/WATER	Not available.
AUTOIGNITION TEMPERATURE	Not applicable.
DECOMPOSITION TEMPERATURE	Not applicable.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY	Stable under normal conditions of use and storage.
HAZARDOUS REACTIONS	Reacts with acids to generate heat. Solutions react with aluminium, zinc, tin and their alloys with the release of highly flammable hydrogen.
CONDITIONS TO AVOID	Heat generated in reaction with acids, water, organohalogen compounds, nitro- and chlor-organic compounds.
INCOMPATIBLE MATERIALS	Acids, organohalogen compounds, nitro- and chlor-organic compounds.
HAZARDOUS DECOMPOSITION PRODUCTS	Sodium oxide, reaction with certain metals will release flammable and explosive hydrogen gas.
POLYMERIZATION	Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Oral,rat:LD50=≥90 mg/kg
SKIN AND EYE CONTACT	Extremely corrosive. Severe burns and permanent damage to eye tissue. Will cause severe burns and permanent skin damage. Skin draize test, rabbit: 500mg/24h - Severe. Eye draize test, rabbit: 1mg/24h - Severe.
CHRONIC TOXICITY	Not Tested
CARCINOGENICITY	Not Tested
MUTAGENICITY	Not Tested
REPRODUCTIVE HAZARDS	No data available.

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12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY – FISH	This material is expected to be harmful to aquatic life in high concentrations.
AQUATIC TOXICITY – DAPHNIA	This material is expected to be harmful to aquatic life in high concentrations.
AQUATIC TOXICITY – ALGAE	This material is expected to be harmful to aquatic life in high concentrations.
BIODEGRADABILITY	When released into water, this material is expected to be readily biodegradable.
BIO-ACCUMULATION	This material is miscible with water and is not known to bio-accumulate.
MOBILITY IN SOIL	No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Must comply with local, provincial and national regulations. Waste characterization and compliance with disposal regulations is the responsibility of the waste generator.
DISPOSAL OF PACKAGING	Must comply with local, provincial and national regulations. Waste characterization and compliance with disposal regulations is the responsibility of the waste generator.
SPILL RESIDUE	Recovered loads of liquids may be disposed of in a permitted waste management facility. Consult national, provincial or local disposal authorities for approved procedures.

14. TRANSPORT INFORMATION

UN NUMBER	1823
UN PROPER SHIPPING NAME	Sodium Hydroxide Flakes: Corrosive Powder N.O.S.
TRANSPORT HAZARD CLASS(ES)	8
PACKING GROUP	II
MARINE POLLUTANT	Not listed as a marine pollutant.
SPECIAL PRECAUTIONS	None.

15. REGULATORY INFORMATION

EEC HAZARD CLASSIFICATION	C : Corrosive
RISK PHRASES	R35
SAFETY PHRASES	S1/2, S24/25, S26, S27, S28, S36/37/39
RSA NATIONAL LEGISLATION	Occupational Health and Safety Act (No. 85 of 1993) Regulation R1449 of 6 September 1996. Government Notice No. 17403. Regulations for Hazardous Chemical Substances.

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	SANS 10265 - The classification and labelling of dangerous substances and preparations. SANS 10234 - Globally harmonized system of classification and labelling of chemicals (GHS).

16. OTHER INFORMATION

HAZARD SYMBOLS INFORMATION	
C	Corrosive.

RISK PHRASES INFORMATION	
R35	Causes severe burns.

SAFETY PHRASES INFORMATION	
S1/2	Keep locked up and out of the reach of children.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27	Take off immediately all contaminated clothing.
S28	After contact with skin, wash immediately with plenty of water.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

SDS PREPARATION DATE	May 2009
COMPILED BY	Grant Whitaker
APPROVED BY	Don Mackay
DATE OF APPROVAL	16 January 2013
DATE OF REVISION / STATUS	05 June 2017 / Rev 3

DISCLAIMER:

The information contained herein is based on our best current technical knowledge of the product concerned and is given in good faith. The attention of end users is drawn to (amongst other things) the element of risk consequent to the use of the product for purposes other than that for which it was intended. In no way does the document remove the need for the user of this product to fully understand and apply statutory requirements. It is the user's sole responsibility to take due precautions relative to the use made of the product. All the information included herein is intended onto to assist the reader in fulfilling his or her statutory duty connected with the use of hazardous materials. This list of information must not be considered as exhaustive and does not exonerate the reader from taking other precautions described in documents other than those mentioned concerning the storage and use of the product for which he or she remains the sole person responsible.

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