according to EU Directive 93/112/EC

ANTISULPHATE-SALT NEUTRALISER

Version: HG 3 Print date: 2.11.06



	1.	Identification	of Substance	Preparation	and Company
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Product Name Antisulphate-Salt Neutraliser

Company Biokil Crown Ltd

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Nottingham, NG10 2DD

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2. Composition / Information on ingredients

Ingredient Cas Number Concentrate Hazard R. Phase (see section 3)

Sodium Silicate 1344-09-8 40-55% Xi 38,41

3. Hazards identification

R38- Irritating to skin

R41- Risk of serious damage to eyes

4. First aid measures

Inhalation: Remove from exposure. Keep warm and at rest. If there is

respiratory distress give oxygen. If respiration stops or shows signs of failing, apply artificial respiration. Do not use mouth to

mouth ventilation obtain medical attention urgently.

Skin contact: Remove contaminated clothing. Wash affected area with copious

amounts of water until no soapy feeling remains. Obtain medical

attention if irritation persists.

Eye contact: Speed is essential - the eye should be thoroughly irrigated for not

less than 20 minutes with clean water. This prolonged irrigation is of extreme importance and must be done at once otherwise permanent damage will result. Continue irrigation until medical

attention can be obtained.

Ingestion: Wash out mouth with water and give sips of water or milk to drink

to sooth the affected parts. Obtain medical attention. Do not

induce vomiting.

5. Fire fighting measures

Suitable Extinguisher Media: Compatible with all standard fire fighting techniques. No special

procedures required. Select extinguishing medium appropriate to other materials involved in and/or to the circumstances of the fire

Exposure Hazards: Non flammable. Contact with certain metals liberates highly

flammable hydrogen gas which may form an explosive mixture

with air.

Special Protective Equipment: Non combustible. May generate toxic fumes in a fire therefore fire

fighters should wear self contained breathing apparatus and full

body protective clothing.

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6. Accidental release measures

Personal Precautions: Avoid contact with the product. Ventilate the area to dispel

airborne concentrations . protective clothing and (under severe conditions) breathing apparatus should be worn when dealing with

spillage.

Environmental Precautions: If size of spillage warrants and has contaminated water

courses, drains or vegetation, advise appropriate authorities.

Cleaning up methods: Small or large spills should be contained with dry sand and

transfer solids to polyethylene buckets for neutralisation and disposal. See disposal considerations and environmental

precautions. Wash residual liquid to drain with copious amounts of water and possibly detergent. Dispose of waste in accordance with

waste disposal and water authority regulations.

7. Handling and storage

Handling: Exposure by inhalation or skin contact should be minimized by

good practice. Wear appropriate protecting clothing (see exposure control). Safety showers and eye baths should be available in areas where accidental exposure is possible. If freezing occurs the solutions may be reconstituted by warming and agitating with not change in properties. The product should be kept in a closed

system away from strong acids.

Storage: Store in a well ventilated area away from incompatible chemicals

or materials (see stability and reactivity). Store in closed steel or other suitable vessels which prevent the free circulation of air over the surface of the silicate .If not exposed to the atmosphere solutions will keep indefinitely. Drums must be kept closed when not in use. The product absorbs carbon dioxide on exposure to the atmosphere and may even lose water resulting in gelling of the formulation initially turning cloudy then eventually solidifying. Avoid exposure to low temperatures. Dilute solutions may freeze and ice crystals may separate, rising to the surface. Do not pack in containers which may be attacked or which absorb from the

solution (see materials to avoid).

8. Exposure controls / personal protection

Respiratory: Occupational exposure limits not assigned by HSE (1) or ACG1H

(2). Note, Sodium Hydroxide has an exposure standard of 2mg/m (10 minutes TWA) HSE (1). It is recommended that exposure to alkalinity calculated as NaOH should be kept below this limit. In case of mist or spray exposure wear self contained breathing

apparatus (see stability and reactivity).

Hand: Wear impermeable plastic or rubber gloves.

Eye: Eye protection should be worn. Eye baths should be provided at

places where accidental exposure may be possible.

Skin: Wear impervious boots and polycotton overalls. Where significant

exposure if possible, wear impervious body covering . Showers should be provided at where accidental exposure may occur.

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9. Physical and chemical properties

Appearance: Viscous Aqueous Solution Boiling Point: 100-101c

Odour: Odourless Vapour pressure @ 20c: as water vapour

pH: 11.6 Evaporation rate (butyl acetate =): as water

Flash Point N/A Flammable limits in air: upper N/A

Lower N/A

Solubility: Completely soluble in water Autoignition temperature: N/A

Flammability: None

Specific gravity: 1.2 @ 20c

10. Stability and reactivity

Material to avoid: Contact with acids will cause the liquids to gel. Absorbs carbon

dioxide from the air. Ignites and maintains combustion in fluorine. Contact with wood will cause discoloration. Solutions will react with new surfaces of aluminium, zinc and their alloys to liberate

hazardous decomposition fumes.

Hazardous decomposition

products: contact with aluminium, brass, tin and zinc will produce highly

flammable and explosive hydrogen gas.

11. Toxicological information

Inhalation: Inhalation effects respiration and may cause pulmonary oedeme.

Skin contact: There is little danger of cold solutions causing acute damage to

the skin. Prolonged contact may cause dryness and reddening. hot

solutions may cause chemical burns.

Eye contact: Corrosive to eyes and may cause corneal damage

Ingestion: Ingestion causes systematic dehydration and nausea. Large

amount may result in severe abdominal pain, vomiting, diarroea,

convulsions and collapse.

12. Ecological information

Ecotoxicity: Increase in pH of 10 or more is lethal to aquatic life. No evidence

of bioaccumulation or training of seafood. Practically non-toxic to

living resources- 95hr LC50 = 100-1000mg/1.

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13. Disposal considerations

Disposal dangers: Treat as for spillages. Wear appropriate protective clothing (see

accidental release measures). Care should be taken to ensure accidental mixing with acids and in drains is avoided. Do not attempt to neutralize with strong acids. Neutralisation generates

much heat (see disposal methods)

Disposal methods: Dispose of hazardous waste in accordance with special waste

regulations (control pollution act regulations 1980). First neutrilise with careful addition of soda ash. Carefully mix and then spray with water and transfer the slurry into large container. Decant off liquid into another container and neutralize to litmus with 6M HC1. Wash to drain with plenty of water. Arrange for removal of containers by a licensed contractors in accordance with

waste disposal regulations

14. Transport information

UN NUMBER: N/A PACKAGING GROUP: N/A

ROAD

ADR CLASS: NOT CLASSIFIED AIR TRANSPORT NUMBER:

ADR HAZARD NUMBER: AIR PACK GLP:

ADR ITEM NUMBER:

SEA

IMDG CLASS: NOT CLASSIFIED

IMDG PAGE NUMBER: MARINE POLLUTANT:

PROPER SHIPPING NAME: N/A

15. Regulatory information

EEC HAZARD CLASSIFCATION: Irritant.

RISK PHRASES: R38- Irritating to skin.
R41- Risk of serious da

R41- Risk of serious damage to eyes. SAFTEY PHRASES: S2- Keep out of reach of children.

S26- in case of contact with eyes, rinse immediately with plenty of

Water and seek medical advice.

S37/39- Wear suitable gloves and eye/face protection.

16. Other Information

TRAINING ADVICE: Do not use unless trained to do so.

RECOMMENDED USES: For other uses see products technical data sheet.

DATA RESOURCES: 1. HSE Guidance note EH40 occupational exposure limits.

2. ACG1H (Threshold limit values and biological exposure indices)

1985-86

3. Chemicals (hazard information & packaging) regulations 1996.

4. IMO Reports and studies no. 35 (The evaluation of harmful substances carried by ships) 1989.

5. IMDG code (International maritime dangerous goods codes) 1995.

6. Control of substances hazardous to health regulations 1994.

7. Control of pollution act 1974.

8. Hazchem list no. 6 (emergency action codes and supplementary

information) 1990.