

MATERIAL SAFETY DATA SHEET

Description: SAF EA ACID NEUTRALISER Revision Number: 01

Document Number: MSDS A016



ENVIRONMENTALLY ACCEPTABLE ACID SPILL NEUTRALISER

GENERAL

Serving the environmental protection needs of companies that uses, store and/or transport acids, SAFIC provides a powder product, SAF-EA ACID NEUTRALISER, TO CONTAIN AND NEUTRALISE ACID SPILLS.

FORMULATION

SAF-EA ACID NEUTRALISER contains environmentally acceptable ingredients with no noxious fumes and the product is user friendly.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
Appearance		Odourless white powder
Solubility (water)		Soluble

PROPERTIES

- Environmentally acceptable
- User friendly – will not burn the skin
- Powder format eliminates water/ acids reaction
- Can be diluted with water to wash residue after clean-up

APPLICATION

- Clear area of spill first – restrict access to area
- Wear protective clothing appropriate to the spill
- Contain the spill by working the spill from the perimeter towards the middle to reduce further contamination of area.
- Collect used spill material and neutraliser into marked containers and dispose according to local legislation.

Prepared by: Sabelo Dladla

Reviewed by: Zanele Mthimunye

Status: Issued

Approved by: Doug Cutter

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THE RECOMMENDATIONS CONTAINED HERE-IN IS BASED ON LABORATORY TESTS AND INFIELD USE EXPERIENCE, AND ARE TO THE BEST OF OUR KNOWLEDGE ACCURATE. SINCE TERMS AND CONDITIONS OF ACTUAL USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS ARE MADE WITHOUT WARRANTY, EXPRESS OR IMPLIED.

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Company Details

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1. Product Identification

Trade Name	SAF – EA ACID NEUTRALISER	Product Code:	A016
Chemical Family	Sodium salts		
Chemical Name	Formulated chemical		
Product Use	Acid spill neutraliser		

2. Composition

CAS No.	Hazardous Components	Approximate %	Limit
00497-19-8	Sodium salts	> 60	Oral-man LDLo : 714 mg/kg
EEC classification	Irritant (xi), SAF – EA NEUTRALISER		
R Phrases	R36/37/38, SAF – EA NEUTRALISER		

3. Hazards Identification

Main hazard	Irritant
Fire	Non flammable
Inhalation	Irritation of nose, eyes, throat. Coughing.
Skin contact	Itching and tingling sensation.
Eye contact	Watering of eyes. Mechanical irritation followed by chemical irritation.
Ingestion	Burning sensation in mouth, chest, stomach and mouth. Stomach cramps.

4. First Aid Measures

Inhalation	Remove patient to fresh air.
Skin contact	Remove contaminated clothing. Rinse the affected area with tepid water for at least 15 minutes. Dry the skin gently with a soft towel. Do not use soap to wash the area.
Eye contact	Flush eyes for at least 15 minutes. Do not allow the patient to tightly close his/her eyes. Make sure that no chemical particles remain in the eyes. If pain persists, flush the eyes for another 15 minutes. Seek medical attention.
Ingestion	Move the patient to a well-ventilated area. Drink as much water as possible. Do not induce vomiting. Seek medical attention. Do not give anything to drink if the patient is unconscious or convulsing.

5. Fire Fighting Measures

Personal precaution	Irritant to skin after prolonged contact, avoid eye contact.
Environmental precaution	Do not discharge large quantities into storm water drains and other waterways.

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Small fires	Dry chemical, CO ₂ , Halon or water spray.
Large fires	Clear the area. Fire fighters should use self-contained breathing apparatus and structural fire fighter's protective clothing. Use water spray or fog. Cool containers that are exposed to flames with water from the side.

6. Accidental Release Measures

Personal precaution	Irritant to skin after prolonged contact, avoid eye contact.
Environmental precaution	Do not discharge large quantities into storm water drains and other waterways.
Dry spills	Restrict access to area. Provide ventilation and wear protective clothing as well as breathing apparatus and gloves. With a clean shovel place material into clean, dry container and cover. Remove container from spill area.
Wet spills	Restrict access to area. Provide ventilation and wear protective clothing as well as breathing apparatus and gloves. Dilute product with lots of water (can be released to drain).

7. Handling & Storage

Handling	Normal handling procedure for mild corrosive powders to minimise personal exposure.
Storage	Store in a cool dry place. Keep container closed. Keep away from organic peroxides, flammable gases, flammable liquids, flammable solids, spontaneously combustibles and radioactive products/chemicals.

8. Exposure Controls/Personal Protection

Workers should have access to an eye wash fountain.
If the specific application may result in excessive dust emissions, safety goggles (VNC11 supplier – MSA) should be utilised.
Neoprene gloves (Technic 420-supplier MSA) should be utilised.
Work in a well-ventilated area or 6300 type mask/6059 cartridge (3M – supplier) should be utilised where ventilation isn't adequate or there's excessive dust.

9. Physical and Chemical Properties

Appearance	White powder
Melting Point	851 °C
Bulk Density	2.509 at °C
Solubility (water)	Soluble

10. Stability and Reactivity

Stability	Stable under normal conditions.
Incompatible materials	Strong acids
Hazardous decomposition products	Acrid smoke and toxic fumes of Na ₂ O

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11. Toxicological Information (based on sodium salt)

Toxicity	Acute oral: LD50: 4090 mg/kg, rat. Skin, rabbit: 500 mg/24H MLD.
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	No evidence of mutagenic effects.
Teratogenicity	No evidence of teratogenic effects.
Reproductive effects	Not expected to impair fertility

12. Ecological Information (based on sodium salt)

Acute toxicity – fish	96h LC50 : 300 mg/l
Acute toxicity - daphnia	48h EC50 : 265 mg/l
Acute toxicity – algae	5 days EC50 : 242 mg/l
Biodegradability	The product is readily biodegradable
Bioaccumulation	There's no possibility of bioaccumulation.

13. Disposal Considerations

Dispose material by use of a waste disposal company that complies with local and national regulations. Can be discharged to drain if diluted with lots of water (only in cases of emergencies such as spills).	
Disposal of packaging	Wash thoroughly and forward to drum recyclers or collectors.

14. Transport Information

UN Number	3082
Substance identity no	A016
ADR/RID class	Class 9: Irritant powder
IMDG – packaging group	III
Marine Pollutant	No
IMO/IMDG Classification	Class 9 Irritant powder
IATA Classification	Class 9 Irritant powder

15. Regulatory Information

EC Classification	Irritant (Xi)
EC Risk phrases	R36
EC Safety phrases	S2, S22,26

16. Other Information

References : SABS 0265 : 1999, SABS 0228:1995, SABS ISO 11014-1: 1994, M.S.D.S.(Suppliers of raw's)
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The information in this MSDS is based on current knowledge and experience at the date of publication. This MSDS summarises our best knowledge of the health and safety hazard information of the product regarding the precautionary handling, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification of the product. The data relates only to the specific product designated, and does not relate to use of the product in combination with any other material or use of the product in any process. The data is not intended to constitute performance information concerning the product. No express warranty or implied warranty of merchantability for fitness for a particular purpose is made with respect to the product and/or its composition.

APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
20/06/2012	Technical Manager	New Issue	MSDS A016	00
20/05/2013	Technical Manager	Document review and change of Company logo.	MSDS A016	01

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