

MATERIAL SAFETY DATA SHEET

Description: SAF EA DEGREASE **Revision Number:** 01

Document Number: MSDS B017



WATER-BASED DEGREASER

GENERAL

SAF-EA DEGREASE is a versatile cleaner that effectively removes grease and fatty deposits.

FORMULATION

SAF-EA DEGREASE consists of complexing agents, other salts and a cationic/non-ionic surfactant blend. The surfactant used is chosen for its greater environmental acceptability compared to other surfactants available on the market.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
Appearance	-	Clear red liquid
Density	g/cm ³	1.05 – 1.10
PH	-	13.0 – 14.0
Non volatile content	% m/m	15.0 –17.0
Cloud point	°C	5 maximum

PROPERTIES

- Can be diluted up to 1:200 with water
- Effectively removes organic soils (oil, fat, grease) and dirt
- Good risibility – leaves no residue
- Safe on all hard surfaces
- Environmentally acceptable:
 - Surfactant has a primary degradation > 90%
 - Complies with the EEC directive 73/404/EEC on biodegradation for surfactants
 - Biodegradable – bio - accumulation of the surfactant in the environment is not likely.

APPLICATION

Prepared by: Sabelo Dladla

Reviewed by: Zanele Mthimunye

Status: Issued

Approved by: Doug Cutter

Revision Date: 20 May 2013

Issue Date: 20 May 2013

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- | | |
|-----------------------------|---|
| Dilute 1:20 | -Heavy duty degreasing (e.g. car engines, garage floors and walls, lawnmowers, tools, etc.) |
| Dilute 1:40
from fabrics | -Effective removal of grease, red wine, ink, shoe polish, and beetroot stains |
| Dilute 1:100 | -Light duty degreasing and maintenance cleaning |
| Dilute 1:200 | -General cleaning (e.g. floors, walls, tiles, etc.) |

Apply the product to the surface to be cleaned. Spray, mop or wipe the surface, and rinse.

THE RECOMMENDATIONS CONTAINED HERE-IN IS BASED ON LABORATORY TEST AND IN-FIELD 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 DEGREASE	Product Code:	B017
Chemical Family	Cationic/non-ionic surfactant blend, complexing agents		
Chemical Name	Formulated chemical		
Product Use	Heavy duty degreaser/general purpose cleaner		
UN Number	3082 (Miscellaneous substances)		

2. Composition

CAS No.	Hazardous Components	Approximate %	Limit
6834-92-0	Sodium metasilicate (P)	<10	250 mg/24H SEV (skn – hmn)
EEC classification	Irritant (Xi), SAF- EA DEGREASE		
R Phrases	R36/38, SAF-EA DEGREASER		

3. Hazards Identification

Main hazard	Irritant
Fire	Non-flammable.
Inhalation	No hazard
Skin contact	Prolonged or frequent contact may lead to defatting of skin.
Eye contact	Symptoms: severe irritation of eye, burning
Ingestion	Symptom: nausea, burning of throat.

4. First Aid Measures

Inhalation	No hazard
Skin contact	Rinse area well with water. Use a hand-cream to replenish moisture.
Eye contact	Flush eyes with water for at least 15 minutes. Irrigate eyes thoroughly while lifting eyelids and rolling eyeballs. Seek medical attention.
Ingestion	Rinse mouth with water, and allow patient as much water as possible. If large quantities have been swallowed, obtain medical attention.

5. Fire Fighting Measures

Extinguishing media	Product non-flammable. Use extinguishing agents suitable for surrounding fire.
Special hazards	None known
Protective clothing	Approved self contained breathing apparatus should be utilised or equivalent.

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6. Accidental Release Measures

Personal precaution	Avoid prolonged contact with the product. Product may render surfaces slippery.
Environmental precautions	When disposing large quantities, the alkaline nature of the product should be taken into consideration.
Small spills	Remove excess with absorbent material and flush residue with water.
Large spills	Dyke ahead of liquid spill for later disposal. Prevent the discharge of large amounts of concentrated product into sewerage, and watercourses.

7. Handling & Storage

Handling	Normal handling procedure for alkaline detergents to minimise personal exposure.
Storage	Store in a cool dry area. Keep containers sealed. Store in plastic containers.

8. Exposure Controls/Personal Protection

Workers should have access to an eye wash fountain.
If the specific application may result in splashing, safety goggles (VNC11 – supplier – MSA) should be supplied.
If prolonged or frequent contact is expected, NEOPRENE gloves (Technic 420 – supplier – MSA) should be utilised
Handle in a well ventilated area.

9. Physical and Chemical Properties

Appearance	Clear red liquid
pH (concentrate)	13.0 – 14.0
Density	1.05 – 1.10 g/cm ³
Non volatile	15.0 – 17.0 m/m
Solubility (water)	100%

10. Stability and Reactivity

Stability	Stable under normal conditions.
Incompatible materials	Strong acids
Hazardous decomposition products	Toxic fumes may be liberated on decomposition.

11. Toxicological Information (based on sodium metasilicate)

Toxicity - Acute oral	LD ₅₀ (oral – rat): 1153 mg/kg
Acute dermal	250 mg/24H SEV (skn – hmn)
Carcinogenicity	No evidence of carcinogenic properties
Mutagenicity	No evidence of mutagenic effects
Teratogenicity	No evidence of teratogenic effects

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Reproductive hazards	Not expected to impair fertility
12. Ecological Information (based on surfactant blend)	
Aquatic toxicity – rainbow trout	LC ₅₀ (96 h): 30 mg/l
Aquatic toxicity – daphnia	EC ₅₀ (48 h): 13 mg/l
Aquatic toxicity - algae	EC ₅₀ (72 h): 1.6 mg/l
Biodegradability	Primary degradation (surfactant) > 90%
Bioaccumulation	Not likely – product is biodegradable and water soluble

13. Disposal Considerations

Disposal methods	Dispose as per local agreed government method.
When disposing of large quantities, the alkaline nature of the product should be taken into consideration.	
Disposal of packaging	Recycle or wash thoroughly to be re-used.

14. Transport Information

UN Number	3082
Substance identity no	B017
ADR/RID class	Class 9: Irritant liquid
IMDG – packaging group	III
Marine Pollutant	No
IMO/IMDG Classification	IMDG Class 9 Irritant liquid
IATA Classification	Class 9 Irritant liquid

15. Regulatory Information

EEC-hazard classification	Irritant (Xi)
Risk phrases	R36/38
Safety phrases	S24/26

16. Other Information

References: SABS 0265: 1999, SABS 0228:1995, SABS ISO 11014-1: 1994, M.S.D.S. (Suppliers of raw's)
Issued by: Sabelo Dladla
EMERGENCY NUMBERS: 011 406 4000 / 082 412 2298

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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 and is intended only as a guide to the appropriate precautionary handling, use, 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, its composition, its safety or the information contained in this MSDS sheet.

APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
18/02/2011	Technical Manager	New Issue	MSDS B017	00
20/05/2013	Technical Manager	Document review and change of Company logo.	MSDS B017	01

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