

MATERIAL SAFETY DATA SHEET

Description: SAF INDUSTRIAL Revision Number: 02

Document Number: MSDS I001



GENERAL PURPOSE SOLVENT CLEANER

GENERAL

SAF-INDUSTRIAL is a versatile, safe to use, non-flammable, multi-purpose, biodegradable degreaser and cleaner. As SAF-INDUSTRIAL is very concentrated and its components are carefully balanced, it may be diluted as much as 1:100 with water and still have excellent cleaning power.

FORMULATION

SAF-INDUSTRIAL is based on a balance of biodegradable, non-ionic and anionic surfactants, coupling solvents, chelating and soil-suspending inorganics but contains no free alkali.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
Appearance		Liquid transparent
Colour		Bright orange
Density	g/cm ³	1,02 - 1,04
pH		12,0 - 13,0

PROPERTIES

- * SAF-INDUSTRIAL is non-flammable, has a high TLV (Threshold Limit Value) of 250 ppm. and may be safely used in all work areas (except electrical due to being water based). SAF-INDUSTRIAL may be diluted up to 1:100 with water and still retain excellent cleaning power and, when used neat is usually too concentrated to give good rinse off and quick removal. Best results are obtained with dilutions from 1 in 5 - 50. SAF-INDUSTRIAL will not re-deposit dirt or grease due to its unique balance of emulsifiers and suspending agents i.e. no dirt film remains.
- * SAF-INDUSTRIAL does not attack metals, rubbers, plastics or concrete and may be safely used on all surfaces except some low quality PVA paints. Good quality acrylics will not be effected at dilutions above 1:25 and industrial machines, animal fat and grease removal from delivery vehicles and containers, wash out for used machine coolants, printing ink removal, boiler soot dispersal etc.

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APPLICATION

SAF-INDUSTRIAL can be used by spray, mop or through pressure spray applicators.

Steam cleaning - 1:200 final dilution (pre-dilute 1:20)

General cleaning - 1:100 (floors, walls, tiles etc.)

Degreasing - 1:20 (fatty deposits, light oils, etc.)

Waterbased inks - 1:50

THE RECOMMENDATIONS CONTAINED HERE-IN ARE 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.

CONTROLLED DOCUMENT

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Company Details

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Postal Address	PO BOX 1754, Alberton 1450	e-mail:	technical@safic.co.za

1. Product Identification

Trade Name	SAF-INDUSTRIAL	Product Code:	I001
Chemical Family	Non-ionic & anionic surfactants, chelating agents		
Chemical Name	Formulated chemical		
Product Use	General purpose degreaser and cleaner		

2. Composition

CAS No.	Hazardous Components	Approximate %	OSHA PEL
6834-92-0	Sodium metasilicate	<10	250 mg/24H SEV (skin)
111-76-2	Glycol ether	<10	25ppm TWA; 120mg/m ³
EEC classification	Irritant (xi), SAF - INDUSTRIAL		
R Phrases	R36/37/38, SAF - INDUSTRIAL		

3. Hazards Identification

Main Hazard	Irritant
Fire	Non-flammable
Inhalation	Excess spray – coughing, shortness of breath.
Skin contact	Irritant. Prolonged or frequent contact may lead to defatting of skin
Eye contact	Irritant. Burning
Ingestion	Nausea. Vomiting, gastrointestinal irritation, burns to throat and mouth

4. First Aid Measures

Inhalation	Move patient to fresh air.
Skin contact	Rinse area well with water. If necessary, use a hand-cream to replenish moisture.
Eye contact	Flush eyes with water running for at least 15 minutes. Irrigate eyes thoroughly while lifting eyelids and rolling eyeballs. If irritation persists, 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.

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5. Fire Fighting Measures

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

6. Accidental Release Measures

Personal precaution	Avoid prolonged skin contact with the concentrate.
Environmental precaution	The alkaline nature of the product should be taken into consideration, dilute product before disposing.
Small spills	Remove excess with absorbent material and flush residue with plenty of 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 detergents, to minimise personal exposure.
Storage	Store in a cool dry area. Keep containers sealed. No special requirements.

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, or 6300 respiratory/6059 cartridge (3M – supplier) should be utilised if ventilation is not adequate.

9. Physical and Chemical Properties

Appearance	Clear orange/fluorescent liquid
pH	12.0 – 13.0
Density	1.02 – 1.04 g/cm ³
Solubility (water)	100 %

10. Stability and Reactivity

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

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11. Toxicological Information (based on sodium metasilicate)

Toxicity	Acute oral : LD50 : 1153 mg/kg, rat
	Acute dermal : skn – (rbt) 250 mg/24H SEV
Carcinogenicity	No evidence of carcinogenic properties
Mutagenicity	No evidence of mutagenetic effects
Teratogenicity	No evidence of teratogenic effects
Reproductive hazard	Not expected to impair fertility

12. Ecological Information (based on glycol ether)

Fathead minnow	96 hr bioassay LC50: 1700 mg/l
Daphia Magna	48 hr bioassay LC50: > 1000mg/l
Bacterial	IC50: > 5000mg/l
Biodegradability	Biodegradation: 88 % 20 days
Bio accumulation	No possibility of bioaccumulation – completely water soluble and biodegradable

13. Disposal Considerations

Disposal method	Dispose as per local agreed government method.
Disposal of packaging	Recycle or wash thoroughly and re-use the container.

14. Transport Information

Substance identity no	I001
ADR/RID class	N/A
IMDG – packaging group	III
Marine Pollutant	No
IMO/IMDG Classification	N/A
IATA Classification	N/A

15. Regulatory Information

EEC-hazard classification	Irritant (Xi)
Risk phrases	R36/37/38
Safety phrases	S24/25, S36

16. Other Information

Reference: 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 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.	
11/02/2011	Technical Manager	New Issue	MSDS I001	00
20/05/2013	Technical Manager	Logo Change	MSDS I001	01
13/02/2017	Operations Director	Transport Info reviewed	MSDS I001	02

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