

MATERIAL SAFETY DATA SHEET

Description: SAF-EA 110 DEG-C Revision Number: 01

Document Number: MSDS C110



SUPER HIGH-FLASHPOINT ODOURLESS "EA" SOLVENT BASED DEGREASER

GENERAL

SAF-EA 110 DEG-C is an odourless, very high flash point environmentally acceptable solvent degreaser developed to be used in confined spaces and underground where flammability is a high risk factor.

FORMULATION

SAF-EA 110 DEG-C is based on an odourless, very high flash point solvent, emulsifiers and surfactants.

PRODUCT DESCRIPTION

<u>TEST</u>	<u>UNIT OF MEASURE</u>	<u>SPECIFICATION</u>
APPEARANCE	-	Light colourless liquid
SPECIFIC GRAVITY	g/cm ³	0.76 – 0.78
FLASH POINT	°C	110 minimum

PROPERTIES

- SAF-EA 110 DEG-C has a flash point of 110°C minimum and is thus safe to use in very high fire risk areas.
- Highly effective in removing grease, oil and other solvents from hard surfaces
- Totally environmentally acceptable
- Contains no Nonyl Phenols

APPLICATION

SAF-EA 110 DEG-C is used for cold cleaning of industrial machinery, mining equipment, machine parts, floors etc. Apply SAF-EA 110 DEG-C as received by brush, spray or cloth to component to be cleaned, allow a few minutes for the reaction to take place (dependent on the nature of the soil) and rinse. SAF-EA 110 DEG-C can also be used in a dip tank process.

Prepared by: Sabelo Dladla

Reviewed by: Doreen Gwanyuki

Status: Issued

Approved by: Doug Cutter

Revision Date: 30 March 2015

Issue Date: 30 March 2015

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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.

Company Details

Name	SAFIC (PTY) LTD	Tel:	+27 11 406 4000
Address	32 Steele Street, Steeledale	Fax:	+27 11 406 4252
Postal Address	PO BOX 1754, Alberton North,	e-	technical@safic.co

Prepared by: Sabelo Dladla

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1. Product Identification

Trade Name	SAF-EA 110 DEG-C	Product code: C110
Chemical Family	Aliphatic straight chained hydrocarbons and surfactants	
Chemical Name	Formulated chemical	
Product Use	Degreasing, grease dissolving & removal of dirt, grime, bitumen, and tar in very high fire risk areas.	
UN Number	N/A	

2. Composition

CAS No.	Hazardous Components	Approx. %	Exposure level limits
64771-72-8	Aliphatic hydrocarbon blend	>80	TWA 350 mg/m ³
EEC classification	Combustible liquid, SAF-EA 110 DEG-C		
Risk phrases	R36/37/38 R65, SAF-EA 110 DEG-C		

3. Hazards Identification

Main hazard	Combustible liquid
Fire	Non Flammable – Flash point (110) degrees Celsius – Flash point higher than 60 degrees Celsius, any liquid with a closed-flash point of less than 61 degrees is considered flammable. COMBUSTIBLE LIQUID avoid direct exposure to naked flames and excessive heat.
Inhalation	Prolonged contact results to defatting of skin. Avoid prolonged skin contact; wear gloves to prevent possible effects.
Skin contact	Avoid unnecessary inhalation, may lead to drowsiness. Work in a well ventilated area or wear mask if ventilation is limited.
Eye contact	Irritant, burning.
Ingestion	Possible serious damage to lungs. May be fatal if swallowed.

4. First Aid Measures

Inhalation	Move patient to fresh air and allow some water.
Skin contact	Wash area well with soap and water, apply barrier cream.
Eye contact	Flush eyes with water for at least 15 minutes. Irrigate eyes thoroughly while lifting eyelids and rolling eyeballs. If irritation persists, seek medical attention.
Ingestion	Do not induce vomiting – seek medical attention immediately.

5. Fire Fighting Measures

Extinguishing media	The product supports combustion on open flames; the product has a high flash point (110 degrees Celsius) use suitable extinguishing agents should there be fire in the surrounding.
Special Hazards	Toxic fumes will be liberated on decomposition.

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Protective clothing

Self contained breathing apparatus or equivalent should be utilised should there be fire in surrounding area.

6. Accidental Release Measures

Land	Prevent from entering drains and watercourses, absorb with suitable absorbent and dispose in accordance with local regulations
Water	Confine spill by using absorbent booms, remove by skimming or with suitable absorbent

7. Handling & Storage

Handling	Normal handling procedure for combustible solvent based degreasers to minimise personal exposure, avoid direct exposure to naked flames and excessive heat.
Storage	Store in a cool dry area. Keep containers sealed. Good warehouse and storage practises.

8. Exposure Controls/Personal Protection

Users should have access to an eye wash fountain.
If specific application may result to splashing, safety goggles (VNC 11 – supplier – MSA) should be utilised.
Nitrile gloves (Ultranitril 492-supplier MSA) should be utilised when handling the product.
Work in a well-ventilated area or 6300 type mask/6059 cartridge (3M – supplier) should be utilised where ventilation isn't adequate.

9. Physical and Chemical Properties

Appearance	Clear colourless liquid
Emulsification	Emulsifies
Specific gravity	0.76 – 0.78
Flashpoint	110 °C minimum

10. Stability and Reactivity

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Stability	Stable under normal conditions.
Incompatible	Strong oxidising agents
Hazardous decomposition products	Carbon monoxide & dioxide will be liberated on decomposition.

11. Toxicological Information (based on hydrocarbon blend)

Toxicity	The product is harmful to aquatic organisms
Carcinogenicity	No evidence of carcinogenic effects.
Mutagenicity	Not expected to be mutagenic.
Teratogenic effects	No evidence of teratogenic effects.

12. Ecological Information (based on hydrocarbon blend)

Acute toxicity – fish	Imp-rat TDLo: 120 mg/kg: ETA
Mobility	Not expected
Biodegradability	Above 80% biodegradability, requirements of the EEC directive 82/242 are met.
Bioaccumulation	Not expected to bio accumulate, this surfactant is expected to be removed automatically through the biological treatment process.

13. Disposal Considerations

Although the product is not expected to accumulate in the aqueous environment due to its ability to biodegrade rapidly but it still has to be treated as below.	
Disposal should be strictly in accordance with applicable regional, national, and local laws and regulations.	
Disposal of packaging	Do not puncture, vent in a safe place away from sparks and fire. Send container to recognised drum recovers or recyclers.

14. Transport Information

Substance identity no	C110
Packaging group	III
ADR/RID class	Not regulated
Marine Pollutant	No, caution should be taken, the material is solvent based.
IMO/IMDG Classification	Not regulated
IATA Classification	Not regulated

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15. Regulatory Information

EEC-hazard classification	Combustible liquid
Risk phrases	R20/22/38 R65
Safety phrases	S23/24/25 S38 S56 S62

16. Other Information

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

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.

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
11/02/2011	Technical Manager	New Issue	MSDS C110	00
30/03/2015	Operations Director	Review	MSDS C110	01

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