

## MATERIAL SAFETY DATA SHEET

Description: SAF EA CONTACT      Revision Number: 01

Document Number: MSDS EA004



### GENERAL

SAF-EA CONTACT, an electrical safety solvent, has been developed to provide a natural replacement for more hazardous cleaners/degreasers and to meet the higher environmental standards being set for industry.

### FORMULATION

SAF-EA CONTACT is derived from natural terpenes found in the peel of oranges, which have extraordinary solvency powers.

### PRODUCT DESCRIPTION:

<u>TEST</u>	<u>UNIT OF MEASURE</u>	<u>SPECIFICATION</u>
APPEARANCE	-	Clear, yellow/orange liquid.
SPECIFIC GRAVITY	g/cm <sup>3</sup>	0.79 – 0.81
SOLUBILITY IN WATER	-	Not soluble

### PROPERTIES

- Totally environmentally acceptable
- Contains no carcinogenic chemicals – safe to use
- Readily biodegradable
- Excellent degreasing properties
- Excellent for use in oil/water separation systems
- Can be used for parts washing and dip tank processes
- Slow evaporating electrical cleaner
- Non-conductive – dielectric strength = 23 000 volts per cm
- Removes carbon, oil, bitumen, grease, waxes, fats, etc.

### APPLICATION:

Prepared by: Sabelo Dladla

Reviewed by: Zanele Mthimunye

Status: Issued

Approved by: Doug Cutter

Revision Date: 20 May 2013

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- Blow equipment with air to remove lint, dust and loose particles
- Spray into equipment until all dirt has been removed. Brushing may be necessary for more persistent dirt.
- Allow to dry completely

Application	Drying time (min)	Diameter (mm)	Temperature	Mass (g)
Liquid (non ventilated)	15.27	130	20.0 °C	0.3
Liquid (well ventilated)	3.30	130	20.0 °C	0.3
Damp cloth	2.27	N/A	20.0 °C	N/A

**NOTE: THE PRODUCT IS A SLOW EVAPORATING SOLVENT TO INCREASE EVAPORATION TIME, A SUITABLE ABSORBENT CAN BE USED TO REMOVE THE EXCESS AND THEREAFTER EQUIPMENT MUST BY BLOWN DRY.**

**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.**

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### Company Details

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### 1. Product Identification

Trade Name	SAF-EA CONTACT	Product code: EA004
Chemical Family	Citrus solvents and aliphatic hydrocarbons	
Chemical Name	Formulated chemical	
Product Use	Electrical degreaser	
UN Number	3295 ( based on the main hazardous ingredient)	

### 2. Composition

CAS No.	Hazardous Components	Approximate %	NIOSH REL
64742-47-8	Aliphatic hydrocarbon (odourless)	> 70	TWA 100 mg/m <sup>3</sup>
EEC - classification	Flammable (F), SAF-EA CONTACT		
Risk phrases	R10 R36/37/38 , R65 SAF-EA CONTACT		

### 3. Hazards Identification

Main Hazard	Flammable liquid
Fire	Flammable
Skin contact	Prolonged contact results to defatting of skin. Avoid prolonged skin contact.
Inhalation	Avoid unnecessary inhalation, may lead to drowsiness. Work in a well ventilated area.
Eye contact	Irritant, burning.
Ingestion	Possible serious damage to lungs.

### 4. First Aid Measures

Inhalation	Move patient to fresh air and allow some water.
Skin contact	Wash area well with soap and water.
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

### 5. Fire Fighting Measures

Extinguishing media	Extinguish with carbon dioxide (CO <sub>2</sub> ), dry powder and foam. Suitable respiratory unit should be utilised.
Special hazards	Toxic fumes will be liberated when burning.
Protective clothing	Self contained breathing apparatus (NIOSH approved) or equivalent should be utilised.

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### 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 solvent based products to minimise personal exposure. Do not smoke or use near sparks or elevated temperatures.
Storage	Store in a cool dry area. Keep containers sealed. Good normal warehouse practices

### 8. Exposure Controls/Personal Protection

Workers 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 yellow/orange liquid
Odour	Citrus
Density	0.79 – 080 g/cm <sup>3</sup>
Solubility (water)	<0.2%
Flash point (closed cup)	45 degrees Celsius
Electric strength	23 000 V

### 10. Stability and Reactivity

Stability	Stable under normal conditions. Keep away from heat, sparks or elevated temperatures.
Incompatible materials	Strong oxidising agents
Hazardous decomposition products	Carbon monoxide & dioxide will be liberated on decomposition.

### 11. Toxicological Information (based on hydrocarbon)

Toxicity	Acute oral: LD50 > 2000 mg/kg (Low toxicity)
	Acute dermal: LD50 > 2000 mg/kg (Low toxicity)
Carcinogenicity	No evidence of carcinogenic effects.
Mutagenicity	Not expected to be mutagenic.
Teratogenicity	No evidence of teratogenic effects.

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Reproductive hazard	Not expected to impair fertility.
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### 12. Ecological Information (based on hydrocarbon)

Acute toxicity - fish	LC/EC/IC 50 > 1000 mg/l (Practically non toxic)
Acute toxicity - daphnia	LC/EC/IC 50 > 1000 mg/l (Practically non toxic)
Acute toxicity – algae	LC/EC/IC 50 > 1000 mg/l (Practically non toxic)
Mobility	Adsorbs to soil and has a low mobility, floats in water
Biodegradability	Readily biodegradable. Complete in 28 days.
Bio accumulation	Not expected when used as recommended.

### 13. Disposal Considerations

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be stringent than regional or national requirements and must be complied with.

Disposal of packaging	Do not puncture, vent in a safe place away from sparks and fire. Send container to drum recovers or recyclers.
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### 14. Transport Information

UN Number	3295 ( based on the main hazardous ingredient)
Substance identity no.	EA 004
Marine Pollutant	No, caution should be taken, the material is solvent based.
ADR/RID class	Class 3 flammable liquid
IMDG – packaging group	III

### 15. Regulatory Information

EEC – hazard classification	Flammable (F), Harmful (Xn)
Risk phrases	R10 R36/37/38, R65
Safety phrases	S7 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)

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 EA004	00
20/05/2013	Technical Manager	Document review and change of Company logo.	MSDS EA004	01

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