

MATERIAL SAFETY DATA SHEET

Description: SAF CARB

Revision Number: 02

Document Number: MSDS C004



COLD TANK DECARBONISING FLUID - DEGREASER - PAINT STRIPPER

GENERAL

SAF-CARB is an extremely powerful solvent-based decarboniser, paint stripper and degreaser to be used in a dip tank process.

FORMULATION

SAF-CARB is formulated on a balance of the most powerful solvents known for removing highly resistant carbonised layers, oxidised greases and top quality paint coatings. This blend of solvents is able to penetrate and soften most non-metal coatings and the wetting agents are designed to give penetration to the most remote parts of a work piece.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
Appearance		Clear dark brown liquid
pH		11,0 - 12,0
Density	g/cm ³	1,15 - 1,20

PROPERTIES

- * Harmless to ferrous and non-ferrous metals including aluminium
- * Cold tank application saves on electricity
- * Three-in-one-process: Decarbonising, degreasing and paint stripping
- * Re-usable product

APPLICATION

Wear protective clothing and equipment

Add about 10% of water at regular intervals to maintain a floating seal to prevent evaporation. Keep components submerged in the product layer until the process is complete (30 minutes up to 3 hours).

Rinse

N.B. NOT TO BE USED ON PUTER, WILL NOT STRIP CERTAIN POLYURETHANE AND EPOXY PAINTS.

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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 AND IMPLIED.

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1. Product Identification

Trade Name	SAF-CARB	Product Code: C004
Chemical Family	Chlorinated hydrocarbon/cresol, sodium salts	
Chemical name	Formulated chemical	
Product Use	Dip tank process decarboniser, paint stripper & degreaser	
UN Number	1593 (based on the main hazardous component)	

2. Composition

CAS No.	Hazardous Components	Approximate %	OSHA PEL
1310-58-3	Potassium hydroxide	<5	CL 2 mg/m ³
75-09-2	Methylene chloride	>60	Transitional:TWA 500ppm
1319-77-3	Cresylic acid	10 - 20	TWA 5 ppm (skin)
10588-01-9	Sodium dichromate	<10	CL 0.1 mg/(CrO ₃)/m ³
EEC classification	Harmful (Xn), SAF-CARB		
R Phrases	R23/24/25, R40 R52, SAF-CARB		

3. Hazards Identification

Main Hazard	Harmful (Xn)
Fire	Non-flammable, can be combustible at excessive temperature.
Inhalation	Anaesthetic effect, which may result to unconsciousness, toxic by inhalation. Handle this product in a well-ventilated area . Masks must always be worn.
Skin contact	Defatting, causes irreversible burns, can be absorbed through skin. Do not handle product without suitable gloves.
Eye contact	Severe burning, always wear eye protection unit. Possible serious damage to eyes.
Ingestion	Nausea, unconsciousness, vomiting, affects nervous system, harmful if swallowed.

4. First Aid Measures

Inhalation	Move patient to fresh air - drink water or milk. Always wear mask when working with product. Supply pure oxygen when unconscious.
Skin contact	Remove contaminated clothing/excess product. Wash area well with soap & water. Use a hand-cream to replenish moisture. Apply polyethylene glycol or propylene glycol. Seek immediate medical attention.
Eye contact	Flush eyes with water for at least 15 minutes. Irrigate eyes thoroughly while lifting eyelids and rolling eyeballs. Seek medical attention immediately.
Ingestion	Induce vomiting (conscious person). Consult a doctor immediately . Treat for the ingestion of chlorinated hydrocarbons and cresols.

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5. Fire Fighting Measures

Extinguishing media	Product is non-flammable but combustible. Use extinguishing agents suitable for surrounding fire.
Special hazard	Toxic corrosive fumes of hydrogen chloride and phenols will be liberated when burning.
Protective clothing	Approved self contained breathing apparatus should be utilised or equivalent.

6. Accidental Release Measures

Personal precaution	The product is harmful on inhalation, skin contact and fatal on ingestion. Contains a suspected carcinogen.
Environmental precaution	This product is toxic to aquatic organisms and its marine pollutant.
Small spills and Large spills	Remove excess with absorbent material and allow the volatile components of the product to evaporate off (preferably outside). Flush the residue with soap & water. Ventilate the area well. Do not dispose to sewer or storm water drains. Use waste disposal company for large quantities.

7. Handling & Storage

Storage	Store in a cool dry area. Keep containers sealed. No special requirements.
Handling	N.B. When opening the steel drum first open slowly to release pressure or open the pressure release valve, this prevent the product from splashing.

8. Exposure Controls/Personal Protection

Workers should have access to an eye wash fountain.
HANDLE PRODUCT WITH CARE AT ALL TIMES. A) The below RESPIRATORY KIT is manufactured by 3M and is suitable for use on this product 1) Full Face Respirators – 3M6800 – where product splashing is possible 2) Half mask – 3M6300 – where product splashing is unlikely 3) Combination Cartridge Type: ABEK1 – 3M6059 4) Pre – filter N95 – 3M5N11 5) Retainer – 3M501 6) Note as soon as one experiences difficulty in breathing when wearing a mask, a NEW cartridge (same as the replaced one) and pre-filter is required. ADEQUATE VENTILATION IS HIGHLY RECOMMENDED AT ALL TIMES EVEN WHEN USING THE ABOVE RESPIRATORY KIT. B) NITRILE gloves (Ultranitril 492 supplier – MSA) must be used when handling SAF – CARB. C) Safety shoes and overalls are recommended when handling this product.

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9. Physical and Chemical Properties

Appearance	Clear dark brown liquid
pH	11.0 – 12.0
Density	1.15 – 1.20 g/cm ³

10. Stability and Reactivity

Stability	Stable under normal conditions.
Incompatible materials	Strong acids, avoid heat, sparks and open flames.
Hazardous decomposition products	When heated toxic corrosive fumes of carbon monoxide, phenolics and hydrogen chloride will be liberated.

11. Toxicological Information (based on dichloromethane)

Toxicity	LD ₅₀ : 1600 mg/kg (ihl-rat)
Carcinogenicity	Suspected carcinogen. (Confirmed through experiments)
Mutagenicity	Mutation data reported.
Teratogenicity	Teratogenic effects reported.

12. Ecological Information (based on methylene chloride)

Aquatic toxicity – rainbow trout	LC ₅₀ (96 h): 1 – 10 mg/l Harmful to aquatic organisms.
Aquatic toxicity – daphnia	Harmful to aquatic organisms.
Aquatic toxicity – algae	Harmful to plants and living organisms.
Mobility	Spillages may penetrate the soil causing ground contamination.
Biodegradability	The product slowly biodegrades over 18 months.
Bioaccumulation	There is a low potential for bioaccumulation.

13. Disposal Considerations

Disposal methods	Strictly dispose as a per local agreed government method.
Disposal of packaging	Drum recyclers or collectors should be contacted.

14. Transport Information

UN Number	1593 (based on main hazardous component)
Substance identity no	C004
ADR/RID class	6.1 Harmful liquid (Xn)
IMDG – Packaging group	III
Marine Pollutant	Yes, especially at excessive quantities.
IMO/IMDG Classification	6.1 Harmful liquid (Xn)
IATA Classification	6.1 Harmful liquid (Xn)

15. Regulatory Information

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EEC-hazard classification	Harmful, (Xn), (3), Carcinogen
Risk phrases	R23/24/25, R40 R52
Safety phrases	S23/24/25, S35/37

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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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.

APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
18/02/2011	Technical Manager	New Issue	MSDS C004	00
20/05/2013	Technical Manager	Document review and change of Company logo.	MSDS C004	01
14/04/2016	System and Food & Beverage Specialist	Document review	MSDS C004	02

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