

MATERIAL SAFETY DATA SHEET

Description: SAF EZE Revision Number: 02

Document Number: MSDS E005012



ANTI-SEIZE COMPOUND (AEROSOL)

GENERAL

SAF-EZE is an anti-seize compound that will withstand extreme pressure and temperatures. The product is used in all areas that require specialised lubrication / protection.

FORMULATION

The product is based on a selection of high-grade silicone oils, chlorinated paraffin wax and a selection of high-grade brass powders carried in a non-flammable chlorinated hydrocarbon solvent blend.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
Appearance		Golden/brown dispersion
Density	g/cm ³	1,10 – 1,19

PROPERTIES

- * Non-flammable effective in excess of 750°C.
- * Safe on metal, natural and synthetic rubber.
- * Decreases corrosion, rust, and seizure.
- * Reduces friction and wear on metal and rubber parts.
- * Reduces thread distortion by heat.
- * Acts as a sealant for gaskets.
- * Facilitates the easier dismantling of equipment

APPLICATION

- * Automotive - Bolts, Nuts, Studs, Spark Plugs etc.
- * Industrial - Pipe threads, Moulds and Dies, Cables, etc.

Prepared by: Sabelo Dladla
Reviewed by: Zanele Selala
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DIRECTIONS

- * Shake can thoroughly until the steel ball rattles and keep on shaking for another 20 seconds thereafter.
- * Hold container in upright position and about 15 to 25 cm from surface to be sprayed.
- * Short spray burst is recommended.
- * Any clogging on nozzle can be washed off with hot water.

THE RECOMMENDATIONS CONTAINED HEREIN ARE BASED ON LABORATORY TESTS AND IN-FIELD USE EXPERIENCE, AND ARE TO THE BEST OF OUR KNOWLEDGE, ACCURATE. SINCE 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 North, 1450	e-mail:	technical@safic.co.za

1. Product Identification

Trade Name	SAF- EZE	Product code:	E005012
Chemical Family	Chlorinated hydrocarbon solvents, ketones and paraffin		
Chemical Name	Formulated Chemical		
Product Use	Anti-seize compound.		

2. Composition

CAS No.	Hazardous Components	Approx. %	OSHA PEL
75-09-2	Methylene Chloride	40 - 60	TWA 500, STEL 126ppm
78-93-3	Methyl ethyl ketone	<10	TWA 200, STEL 300ppm
63449-39-8	Chlorinated paraffin	30 - 50	Oral – rat LD50: > 4000 mg/kg

3. Hazards Identification

Main hazard	Harmful. (Vigorous reaction with Chloroform, alkali, Nitric Acid and Hydrogen Peroxide.) Store away from these chemicals.
Inhalation	Anaesthetic effect, conjunctiva and respiratory irritation.
Skin contact	Defatting, can be absorbed through skin
Eye contact	Burning, possible serious damage to eyes
Ingestion	Nausea, possible serious lung damage.

4. First Aid Measures

Inhalation	Move patient to fresh air.
Skin contact	Remove chemical from the skin by wiping off, and then wash with soap and water for 15min. Apply cream.
Eye contact	Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention immediately.
Ingestion	Toxic by ingestion. Induce vomiting. Seek medical attention immediately.

5. Fire Fighting Measures

Product is not flammable. Use suitable extinguishing media on surrounding area. The product is combustible at very high temperatures.	
Special hazards	Combustible liquid
Protective clothing	Approved self contained breathing apparatus should be utilised or equivalent.

6. Accidental Release Measures

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Small spills	Remove excess with absorbent material and allow vapours to evaporate outside. Ventilate the area until vapours have evaporated.
Large spills	When disposing large quantities, care should be taken not to discharge of product into sewerage and watercourses. Dispose of using a disposal company.

7. Handling & Storage

Handling	Shock sensitive. Do not puncture or overheat cans. Normal handling procedure for solvent based products to minimise personal exposure to the product
Storage	Store in a cool dry area. Keep containers sealed. Special requirements: store away from Nitric Acid and Hydrogen Peroxide (explosive products form when they react).

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, NITRILE gloves (Ultranitril 492 – 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	Golden/brown dispersion.
Density	1.10-1.19 g/cm ³
Viscosity	350-450mPa.s

10. Stability and Reactivity

Stability	Stable.
Avoid the following conditions:	Heat, Sparks, Flame and build up of electricity.
Hazardous decomposition products	When heated it emits acrid toxic fumes (COx & NOx) and smoke

11. Toxicological Information (based on dichloromethane)

Toxicity	Acute oral : LD50 : 1600 mg/kg
	Acute dermal : LD50 810 mg/24H SEV, rabbit
Carcinogenicity	Suspected carcinogen. (Confirmed through experiments)
Mutagenicity	Mutation data reported
Teratogenicity	No adverse effects were found in teratology studies.

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12. Ecological Information (based on dichloromethane)

Aquatic toxicity – rainbow trout	LC50 (96h): 1 – 10 mg/l. Harmful to aquatic organisms.
Aquatic toxicity – daphnia	Harmful to aquatic organisms.
Aquatic toxicity – algae	Harmful to aquatic organisms.

13. Disposal Considerations

Dispose off at waste disposable company. Do not discharge to effluent.	
Disposal of packaging	Recycle or provide to drum collectors or recovers.

14. Transport Information

Substance identity no	E005012
ADR/RID class	Class 6: Harmful liquid
IMDG – packaging group	III
Marine Pollutant	Yes
IMO/IMDG Classification	IMDG Class 6 : Harmful liquid
IATA Classification	Class 6 : Harmful liquid

15. Regulatory Information

EEC-hazard classification	Harmful (Xn)
Risk phrases	R10 R22 R40 R52
Safety phrases	S24/25 S36/37/38 S56

16. Other Information

References: SABS 0265 : 1999, SABS 0228: 1995, ISO SABS 11014-1: 1994, M.S.D.S. (Suppliers of raw's)
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APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
18/02/2011	Technical Manager	New Issue	MSDS E005012	00
20/05/2013	Technical Manager	Document review and change of Company logo.	MSDS E005012	01
14 /04/2016	Systems and Food & Beverage Specialist	Document Review	MSDS E005012	02

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