



MATERIAL SAFETY DATA SHEET

Description: SAF OVEN LIQUID Revision Number: 03

Document Number: MSDS O003

OVEN CLEANING LIQUID

GENERAL

SAF-OVEN LIQUID is a powerful oven-cleaning compound specially designed for the removal of stubborn dirt on oven surfaces.

FORMULATION

SAF-OVEN LIQUID is based on a blend of alkali, non-ionic and amphoteric surfactants and coupling solvents.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
Appearance		Clear colourless liquid
Density	g/cm ³	1.20 - 1.30
Flashpoint	°C	None
Alkalinity	cm ³ IN HCl/cm ³	6.0 - 7.0
TLV		250 ppm
Bio-degradability		100%

PROPERTIES

- * Powerful dirt removing ingredients
- * Safe on materials normally found in an oven
- * No harsh odour
- * Leaves a clean surface without oily film

APPLICATION

Apply a SAF-OVEN LIQUID solution diluted up to 1:5 to the surface to be cleaned using a cloth, agitate and wipe off.

WARNING:WEAR GLOVES WHEN WORKING WITH SAF-OVEN LIQUID. SAF-OVEN LIQUID CAN ETCH GLASS AND DAMAGE WEAK QUALITY PAINT SURFACES IF LEFT ON FOR TOO LONG. SAF-OVEN LIQUID WILL DAMAGE NATURAL FIBRE BRUSHES - USE NYLON.

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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Prepared by: Sabelo Dladla
Reviewed by: Doug Cutter
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Company Details

Name	S.A.F.I.C (PTY) LTD	Tel:	+27 11 406 4000
Address	32 Steele Street, Steeledale, JHB	Fax:	+27 11 406 4252
Postal Address	PO BOX 1754, Alberton North, 1450	e-mail:	technical@safic.co.za

1. Product Identification

Trade Name	SAF-OVEN LIQUID	Product Code: O003
Chemical Family	Alkali blend	
Chemical Name	Oven cleaning liquid	
Product Use	Cleaning fatty deposits	
UN Number	1814 (in solution)	

2. Composition

CAS No.	Hazardous Components	Approximate %	Limit
1310-58-3	Potassium Hydroxide	< 20	CL 2 mg/m ³
1310-73-2	Sodium Hydroxide	< 10	TLV 2 mg/m ³
EEC classification	Corrosive, SAF - OVEN		
R Phrases	R1/2, R35, R36/37/38/39, SAF-OVEN		

3. Hazards Identification

Inhalation	Inhalation of concentrated mist may cause irritation and damage to the respiratory tract.
Skin contact	Corrosive to all tissues – skin contact may not lead to immediate pain, but damage begins at once.
Eye contact	Extremely corrosive to eyes.
Ingestion	Will cause severe mouth burns, extensive damage to oesophagus.

4. First Aid Measures

SPEED IS ESSENTIAL	
Inhalation	Move patient to fresh air. (Inhalation not likely due to liquid format).
Skin contact	Remove contaminated clothing and wash area well with large quantities of water for 30 minutes.
Eye contact	Flush eyes with water for at least 30 minutes holding eyelids open. Seek medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water. Allow patient ± 300 ml of water
Further medical treatment – Symptomatic treatment	

5. Fire Fighting Measures

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Non-flammable. Use an extinguisher appropriate to the material burning.	
Special hazard	Reacts with metals to liberate explosive hydrogen.
Protective clothing	Approved self contained breathing apparatus should be utilised or equivalent equipment.

6. Accidental Release Measures

Personal precaution	Wear suitable protective clothing (Chemical resistant gloves, overalls and safety goggles (NOT POLYETHYLENE)).
Environmental precaution	The product is highly alkaline and is harmful to the environment.
Small spills	Neutralise with dilute hydrochloric acid (10%) and run to waste with plenty of water (pH <9).
Large spills	Dyke ahead of spill with inert material (sand or earth). Neutralise small quantities with diluted hydrochloric acid (10%) and run to waste with plenty of water (pH <9). Disposal should be in accordance with local and national legislation.

7. Handling & Storage

Handling	Store in a cool, dry area. Protect from damage.
Storage	Avoid contact with skin and eyes. Keep away from aluminium, zinc, lead, tin, acids and chlorinated hydrocarbons.

8. Exposure Controls/Personal Protection

Wear chemical resistant protective clothes and equipment.
Workers must have access to eye wash fountain.
Use barrier cream and impervious gloves. Avoid direct contact. Wash hands before eating, drinking or smoking.
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 & N95 pre-filter (3M – supplier) should be utilised if ventilation is not adequate especially on spraying applications.

9. Physical and Chemical Properties

Appearance	Clear colourless liquid
Alkalinity cm ³ HCl/cm ³	6.0 – 7.0
Density	1.20 – 1.30 g/cm ³
Solubility (water)	100%

10. Stability and Reactivity

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Stability	Stable under normal conditions.
Conditions to avoid	Can react if in contact with acids and chlorinated hydrocarbons.
Hazardous reactions	Reacts with aluminium, zinc, lead, tin and their alloys.
Hazardous decomposition products	None known

11. Toxicological Information (based on KOH)

Acute toxicity - oral	LD50: 365 mg/kg, rat.
Acute toxicity - dermal	50 mg/24H SEV, human.
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	No evidence of mutagenic effects.
Teratogenicity	No evidence of teratogenic effects.
Reproductive hazard	Not expected to impair fertility

12. Ecological Information (based on NaOH)

Acute toxicity – fish	Hazardous to living organisms in high concentrations.
Acute toxicity - daphnia	Hazardous to living organisms in high concentrations.
Acute toxicity – algae	Hazardous to living organisms in high concentrations.
Biodegradation	The product is readily biodegradable
Bioaccumulation	Not expected to bio accumulate.

13. Disposal Considerations

Dispose off at waste disposable company that complies with local and national legislation. Do not discharge to effluent unless neutralised in accordance with local and national legislation.	
Disposal of packaging	Recycle or provide to drum collectors

14. Transport Information

UN No:	1814
Substance identity no	O003
ADR/RID class	Class 8: Corrosive liquid
IMDG – packaging group	II/III
Marine Pollutant	No, but toxic to aquatic organisms.
IMO/IMDG Classification	Class 8: Corrosive liquid
IATA Classification	Class 8: Corrosive liquid

15. Regulatory Information

EC Classification	Corrosive(C)
EC Risk phrases	R1/2, R35 R36/37/R38/R39
EC Safety phrases	S1/2, S26, S27, S37/39, S45

16. Other Information

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References : 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 regarding the precautionary handling, 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 and/or its composition.

APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
18/02/2011	Technical Manager	New Issue	MSDS O003	00
20/05/2013	Technical Manager	Document review and change of Company logo.	MSDS O003	01
19/07/2013	Technical Manager	Inclusion of dilution ratio	MSDS O003	02
09/03/2017	Operations Director	Document Review	MSDS O003	03

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