

SAFETY DATA SHEET (SDS)

ALKALINE CIP LF

1. Identification

Product Name: ALKALINE CIP LF
Product Code: CPL001
Recommended Use: Alkaline CIP Cleaner

Supplier Details: Orlichem (PTY) Ltd
 Unit 2B, Atlantic Dr, Atlantic Hills Business Park, Cape Farms, 7441
Telephone: +27 (021) 932 6457
Website: www.orlichem.co.za

Emergency Telephone No.: +27 (0)21 932 6457

2. Hazards identification

Classification	Health:	Eye Damage	Category	1
		Skin Corrosion	Category	1B
	Environmental:	Not Classified		
	Physical:	Not Classified		

Label element



DANGER

Hazard Statements	Health:	H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage
	Environmental:	Not Classified
	Physical:	Not Classified
Precautionary Statements	General:	P102 - Keep out of reach of children. P103 - Read label before use.
	Prevention:	P260 - Do not breathe dust/fume/gas/mist/vapours/spray P280: Wear protective gloves/protective clothing/eye protection/face protection.
	Response:	See Section 4 (First- Aid Measures)
	Storage:	P402+404 - Store in a dry place. Store in a closed container.
	Disposal:	P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

The information contained herein relates only to the specific material identified. Orlichem (Pty) Ltd believes that such information is accurate and reliable as of the date of this safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information.

3. Composition / Information on ingredients

Substance Mixture

Name	CAS No.	EC No.	Index No.	%
Sodium Hydroxide	1310-73-2	215-185-5	011-002-00-6	45 -50
Water	7732-18-5	231-791-2	-	<50%
Non-Hazardous Components	-	-	-	<10%

Occupational Exposure Limit(s), if available, are listed in section 8

4. First- Aid Measures

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. (P305+351+338)

If eye irritation persists get medical advice/attention.(P337+313)

Skin Contact: IF ON SKIN: Wash with plenty of water (P302+352)

IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+361+353)

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+340)

Ingestion: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+330+331)

Give Water or Milk to Drink.

Get immediate medical advice/attention. (P315)

Most important symptoms/effects, acute and delayed.

Eye Contact: Possible redness and irritation of affected area, Corrosive to the eyes with a danger of vision Impairment / blindness.

Skin Contact: Possible irritation and severe pain. Causes blisters and burns.

Inhalation: Possible irritation and burning of air ways, Difficulty of breathing

Ingestion: Possible irritation and Ingestion causes burns in the mouth, throat and oesophagus

Indication of immediate medical attention and special treatment needed

No Information Available

The information contained herein relates only to the specific material identified. Orlichem (Pty) Ltd believes that such information is accurate and reliable as of the date of this safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information.

5. Fire-Fighting measures

Extinguishing Media

- Water Wet chemical Foam Dry powder Carbon dioxide
- Vaporising liquid Halon

Do not use water jet as an extinguisher, as this will spread the fire

Specific hazards arising from the chemical

Decomposition products may include the following materials:

- Carbon Monoxide
- Carbon Dioxide

Special protective equipment and precautions for firefighters

Use personal protective equipment.

Keep containers exposed to fire cool with water spray.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

6. Accident release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

Protective Equipment: Wear protective clothing as per Section 8 (Exposure controls / personal protection)

Emergency Procedures: As an immediate precautionary measure, isolate spill or leak area. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep out of low areas. Keep unauthorized personnel away.

Environmental precautions Do not allow contact with surface or ground water.

Methods and materials for containment and cleaning up: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway

The information contained herein relates only to the specific material identified. Orlichem (Pty) Ltd believes that such information is accurate and reliable as of the date of this safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information.

7. Handling and Storage

Precautions for safe handling

Handling:

Do not get in eyes. (P262)
 Wash hands thoroughly after handling.(P264)
 Do not eat, drink or smoke when using this product.(P270)
 Wear protective gloves/protective clothing/eye protection/face protection.(P280)

Conditions for safe storage, including any incompatibilities

Storage:

Keep out of reach of children. (P102)
 Store in a dry place. Store in a closed container.(P402+404)
 Keep only in original container. (P234)
 Store away from other materials. (P420) (Such As Acids)
 Protect from sunlight.(P410)

Incompatible Materials:

Acids and Acidic Material

8. Exposure controls / personal protection

Control parameters

Material Name

Sodium Hydroxide

Cas No.

1310-73-2

TWA

2mg/m³ @
 15 minutes

STEL

Not
 Available

Notes

Weight
 Averaged
 theoretically
 calculated

Exposure controls

Engineering Controls:

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Occupational Exposure Control



Wear protective gloves



Wear safety goggles, giving complete eye protection.



Wear protective clothing

Hygiene measures:

Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, and using lavatory and at the end of the day.

The information contained herein relates only to the specific material identified. Orlichem (Pty) Ltd believes that such information is accurate and reliable as of the date of this safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information.

9. Physical and chemical properties

Appearance:	Liquid, Light Amber
Odour:	Alkaline
Odour threshold:	Not Available
pH:	>12.00
Melting point / freezing point:	Not Available
Initial boiling point and boiling range:	Not Available
Flash point:	Not Available
Evaporation rate:	Not Available
Flammability:	Non - Flammable
Upper/lower flammability or explosive limits:	Not Available
Vapour pressure:	Not Available
Vapour density:	Not Available
Relative density:	1.45 – 1.50
Solubility(ies)	Easily soluble in cold water, hot water
Partition coefficient: n-octanol/water:	Not Available
Auto-ignition temperature:	Not Available
Decomposition temperature:	Not Available
Viscosity:	Not Available
Explosive properties:	Not Available
Oxidising properties:	Not Available

10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical stability:	Stable under normal temperatures and pressures.
Possibility of hazardous reactions:	No hazardous reactions known if used for its intended purpose.
Conditions to avoid:	See Section 7 (Handling and Storage)
Incompatible materials:	Acids and Acidic Material
Hazardous decomposition products:	Decomposition products may include irritant fumes.

11. Toxicological information

Component Name	CAS No.	Data
Sodium Hydroxide	1310-73-2	Acute Toxicity: LD50 - 273 mg/kg (Oral-Rat) Irritation: LD50 - 50 mg/kg (Dermal - Rabbit) Reproductive: Not Available

The information contained herein relates only to the specific material identified. Orlichem (Pty) Ltd believes that such information is accurate and reliable as of the date of this safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information.

acute toxicity:	x	Carcinogenicity:	x
skin corrosion/irritation:	✓	reproductive toxicity:	x
serious eye damage/irritation:	✓	STOT-single exposure:	x
respiratory or skin sensitization:	x	STOT-repeated exposure:	x
germ cell mutagenicity:	x	aspiration hazard:	x

✓ Data Required to make classification available

x Not Available

Route(s) of entry/exposure

Eye:

Acute (Immediate):	Causes eye irritation (H320)
Chronic (Delayed):	Causes serious eye damage (H318)

Skin:

Acute (Immediate):	Causes skin irritation (H315)
Chronic (Delayed):	Causes severe skin burns (H314)

Inhalation:

Acute (Immediate):	May be harmful if inhaled (H333)
Chronic (Delayed):	May cause allergy or asthma symptoms or breathing difficulties if inhaled (H334)

Ingestion:

Acute (Immediate):	May be harmful if swallowed (H303)
Chronic (Delayed):	May be harmful if swallowed and enters airways (H305)

12. Ecological information

Toxicity

Components

Components	Species	Test Results
Sodium Hydroxide		
Fish	Gambusia affinis	80 mg/l @ 24 hours
Invertebrates, Aquatic	Not Available	Not Available
Algae	Not Available	Not Available

Persistence and degradability

Abiotic Degradation:	Not Available
Physical- and photo-chemical elimination:	Not Available
Biodegradation:	Not Available

Bioaccumulative potential

Partition coefficient n-octanol /water (log Kow):	Not Available
Bioconcentration factor (BCF):	Not Available

The information contained herein relates only to the specific material identified. Orlichem (Pty) Ltd believes that such information is accurate and reliable as of the date of this safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information.

Mobility in Soil

Known or predicted distribution to environmental compartments: Not Available

Surface tension: Not Available

Adsorption/Desorption: Not Available

Results of PBT and vPvB assessment

Not a PBT according to REACH Annex XIII

Other adverse effects





Not Applicable

13. Disposal considerations
Waste treatment methods

Product waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Where possible recycle container. Consult manufacturer for recycling options.

14. Transport information
International transport regulations

Regulatory Information	UN No.	Proper Shipping Name	Class	Packaging Group	Environmental hazards	Label
ARD/RID Class Land-Road/Railway	1824	Sodium Hydroxide solution	8	III	-	
ADN Class Inland Waterways	1824	Sodium Hydroxide solution	8	III	-	
IMDG Sea	1824	Sodium Hydroxide solution	8	III	-	
IATA-DGR Class Air	1824	Sodium Hydroxide solution	8	III	-	

Special precautions for user: None specified

Emergency Response Guidebook Number: 154

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: This product is provided only in non-bulk containers.

The information contained herein relates only to the specific material identified. Orlichem (Pty) Ltd believes that such information is accurate and reliable as of the date of this safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information.

15. Regulatory Information

Hazard Symbol(s)



Classification

Danger

Hazardous Statement:

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

Precautionary Statements

P102 - Keep out of reach of children.

P103 - Read label before use.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P402+404 - Store in a dry place. Store in a closed container.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

Product Use:

Industrial applications

16. Other information

Date of Issue / Last Revision: 04 March 2021

SDS Code: CPL001

Revision: 2

THIS SAFETY DATA SHEET COMPILES TO THE:

**UNITED NATIONS – GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)
– FIFTH REVISED EDITION 2013**

Disclaimer:

This SDS summarizes at the date of issue, our best knowledge of the health, safety and environmental hazard information related to the product, and in particular, how to safely handle, use and transport the product in the workplace. Since Orlichem (Pty) and its subsidiaries cannot anticipate or control the conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review SDS in the context of how it is to be handled. We shall not assume any liability for the accuracy or completeness of the information herein or any advice given. Product is sold subject to our standard terms and conditions.

The information contained herein relates only to the specific material identified. Orlichem (Pty) Ltd believes that such information is accurate and reliable as of the date of this safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information.