

SAFETY DATA SHEET

CIRCULON 40 : HEAVY DUTY CIP CLEANER

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name CIRCULON 40
Product Code 195
Product Use CIP CAUSTIC CLEANER LIQUID
Company Name Byre Chemicals
Address 3/43 Byre Avenue
 Somerton Park SA 5044
Telephone 08 8350 9228
Fax 08 8350 9334
Emergency phone no. 0412 426 697
Email info@byrechemicals.com.au

2. HAZARDS IDENTIFICATION

GHS Classification H300 Fatal if swallowed Category 1
 H314 Causes severe skin burns and eye damage Category 1A
 H318 Causes serious eye damage Category 1
Signal Word DANGER
Hazard Statement Harmful if swallowed
 Causes severe burns and eye damage
Precautionary Statement
 P101 If medical advice is needed, have product container or label at hand
 P102 Keep out of the reach of children
 P103 Read label before use
 Avoid contact with skin and eyes
 Wear eye protection and rubber gloves
 Avoid inhaling mists
 If swallowed DO NOT induce vomiting. Give water or milk. Seek immediate medical help.
 Splashes on skin to be washed off immediately
 If splashed into eyes, remove contact lenses if present and wash with clean running water for 15 minutes. Seek medical attention immediately.
 Keep containers tightly closed and store in a lock-up facility.

Pictograms



3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS.NO.	PROPORTION
Sodium Hydroxide	1310-73-2	30 - 60 %
Non Hazardous Ingredients		5 - 10 %
Water		Balance

BYRE CHEMICALS

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4. FIRST-AID MEASURES

INHALATION	Avoid generating mists. Remove casualty from contaminated area
INGESTION	If swallowed Do Not induce vomiting. Give water or a glass of milk. If breathing has stopped, give artificial respiration. Transport to hospital.
SKIN	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water. Wash clothing before re-use. If irritation persists, seek medical advice.
EYE	If in eyes, hold eyelids apart and flood the eye continuously with water for at least 10 minutes. Seek medical attention
FIRST AID	Eye wash. Safety shower , hand wash basin
ADVICE TO DOCTOR	Treat symptomatically

5. FIREFIGHTING MEASURES

Extinguishing Media	Carbon dioxide, or foam
Hazards from Combustion	Material won't burn but may emit carbon dioxide including carbon monoxide gas. Contact with some metals including aluminium and zinc will liberate flammable hydrogen gas
Precaution for Firefighter	Wear chemical suit. Prevent run off from entering drains and waterways.

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE

**Evacuate all unauthorised personnel. Do not breathe fumes or handle damaged containers
For small spills hose down area. For large spills absorb onto an inert material such as dirt or sand.
The collected material should then be transferred into suitable containers , labelled and disposed of in an appropriate way.
Dispose of waste according to applicable local and national regulations**

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

**Wear appropriate protective clothing
Avoid inhalation of vapours and mists and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use.
Prevent the build up of mists and vapours in the work atmosphere. Do not use near ignition sources, cut, heat containers as they may produce hazardous fumes. Maintain high standards of personal hygiene ie washing hands prior to eating, drinking, smoking or using toilet facilities**

CONDITIONS FOR SAFE STORAGE

Corrosive liquid . Store in a cool, dry, well ventilated area away from sources of ignition, oxidising agents , strong acids, peroxides, foodstuffs and clothing. Large quantities should be stored in a bunded dangerous goods store. Prevent contact with aluminium, tin, zinc or galvanised iron .Store in original containers

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<i>Exposure Limits</i>	<i>Sodium Hydroxide 2mg/m³</i>
<i>Engineering Controls</i>	<i>This substance is hazardous</i>
<i>Eye Protection</i>	<i>Safety glasses with side shields should be used.</i>
<i>Hand Protection</i>	<i>Wear gloves of impervious material such as neoprene, or nitrile rubber.</i>
<i>Hygiene Measures</i>	<i>Avoid contact with skin, eyes and clothing</i>
	<i>Wash hands after handling product.</i>
	<i>Keep away from foodstuffs.</i>
<i>Skin & Body Protection</i>	<i>Wear rubber apron</i>

9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Appearance</i>	<i>Clear to pale brown mobile liquid</i>
<i>Odour</i>	<i>Nil</i>
<i>pH</i>	<i>Above 13</i>
<i>Boiling Point</i>	<i>Above 100C</i>
<i>Vapour Pressure</i>	<i>Not Applicable</i>
<i>Flash Point</i>	<i>None</i>
<i>Specific Gravity</i>	<i>1.40</i>
<i>Solubility in Water</i>	<i>Miscible in all proportions. Evolves heat on dilution with water.</i>

10. STABILITY AND REACTIVITY

<i>Chemical Stability</i>	<i>Stable under normal conditions of storage and handling</i>
<i>Conditions to avoid</i>	<i>Excess heat exposure to air</i>
<i>Incompatible materials</i>	<i>Acids, strong oxidising agents.</i>
<i>Hazardous decomposition</i>	<i>Thermal decomposition may result in release of irritating fumes including carbon dioxide and carbon monoxide</i>
<i>Hazardous polymerization</i>	<i>Will not occur</i>

11. TOXICOLOGICAL INFORMATION

<i>Acute toxicity</i>	<i>Oral LD₅₀ (Rabbit) 500 mgm/kg</i>
<i>Ingestion</i>	<i>Corrosive. Harmful if swallowed. May cause burns to mouth and throat, nausea, vomiting, abdominal pain and diarrhoea. Can also cause swelling of the larynx and suffocation, perforation of stomach and intestines with constrictive scarring</i>
<i>Eyes</i>	<i>Corrosive. Causes severe burns which can result in permanent injury or blindness</i>
<i>Skin</i>	<i>Causes severe irritation and if untreated burns</i>
<i>Carcinogenic</i>	<i>No evidence of carcinogenic properties</i>
<i>Chronic Effects</i>	<i>Repeated or prolonged skin contact may cause chronic dermatitis.</i>

12. ECOLOGICAL INFORMATION

<i>Ecotoxicity</i>	<i>No data available</i>
<i>Persistence/Degradability</i>	<i>Low</i>
<i>Mobility</i>	<i>Soluble in water</i>
<i>Bioaccumulative Potential</i>	<i>No data available</i>
<i>Environmental</i>	<i>Do not discharge into drains, sewers, waterways</i>

13. DISPOSAL CONSIDERATIONS

<i>Spills & Disposal</i>	<i>Disposal of small spillages only. For large spillages liquids should be contained using sand or earth and both liquids and solids then transferred to salvage containers. Residues should be treated as for small spillages. CAUTION: Before dealing with spillage take necessary protective measures, inform others to keep at a safe distance and for flammable materials, shut off all possible sources of ignition. Refer to Land Waste Management Authority in your State</i>
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CIRCULON 40 : HEAVY DUTY CIP CLEANER**14. TRANSPORT INFORMATION**

Transport Information	This material is classified as Dangerous Goods Class 8 Class 8 goods are incompatible with the following Class 1 Explosives Class 5.1 Oxidising substances Class 5.2 Organic peroxides
Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
UN.NO.	1824
Packaging Group	11
Hazchem Code	2R
DG Class	8

15. REGULATORY INFORMATION

Regulatory Information	Classified as hazardous according to criteria of NOHSC Poisons Schedule S6
Hazard Category	Corrosive, irritant to skin
Risk Statement	Causes severe burns.
Safety Statement	Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. Wear suitable gloves and eye/face protection. In case of accident or if unwell, contact a doctor or Poisons Information Centre immediately.

16. OTHER INFORMATION

Preparer Signature	Technical Director
Contact	Telephone: 08 8350 9228 24 hour emergency number 0412 426 697

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