

SAFETY DATA SHEET

HDK : HEAVY DUTY CLEANER

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name HDK
Product Code 194
Product Use Heavy duty general purpose cleaner
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 H303 May be harmful if swallowed Category 5
 H313 May be harmful in contact with skin Category 5
 H318 Causes serious eye damage Category 1
Signal Word DANGER
Hazard Statement Harmful if swallowed
 Causes burns and serious eye damage
Precautionary Statement
 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
Butyl glycol ether	111-76-2	5 - 10 %
Surfactant	blend	5 - 10 %
Non Hazardous Ingredients		1 - 5 %
Potassium hydroxide	1310-58-3	1 - 5 %
Water		Balance

BYRE CHEMICALS

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4. FIRST-AID MEASURES

INHALATION	<i>Avoid generating mists. Remove casualty from contaminated area</i>
INGESTION	<i>If swallowed Do Not induce vomiting. Give water or a glass of milk. If breathing has stopped, give artificial respiration. Transport to hospital.</i>
SKIN	<i>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.</i>
EYE	<i>If in eyes, hold eyelids apart and flood the eye continuously with water for at least 10 minutes. Seek medical attention</i>
FIRST AID	<i>Eye wash. Safety shower , hand wash basin</i>
ADVICE TO DOCTOR	<i>Contains Potassium hydroxide .Treat symptomatically</i>

5. FIREFIGHTING MEASURES

Extinguishing Media	<i>Carbon dioxide, or foam</i>
Hazards from Combustion	<i>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</i>
Precaution for Firefighter	<i>Wear chemical suit. Prevent run off from entering drains and waterways.</i>
HAZCHEM CODE	<i>Not allocated</i>

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE

Spills are slippery.

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

Hazardous 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

HDK : HEAVY DUTY CLEANER**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure Limits	Potassium hydroxide 2 mgm/m ³ TWA Butyl glycol ether 25 ppm/8 hour .
Engineering Controls	This substance is hazardous
Eye Protection	Safety glasses with side shields should be used.
Hand Protection	Wear gloves of impervious material such as neoprene, or nitrile rubber.
Hygiene Measures	Avoid contact with skin, eyes and clothing Wash hands after handling product. Keep away from foodstuffs.
Skin & Body Protection	Wear rubber apron

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear red foaming liquid
Odour	Slight solvent
pH	13.0 (1% solution)
Boiling Point	Above 100C
Vapour Pressure	Not Applicable
Flash Point	None
Specific Gravity	1.10
Solubility in Water	Miscible in all proportions.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling
Conditions to avoid	Avoid contact with foodstuffs
Incompatible materials	Alkalis, strong oxidising agents.
Hazardous decomposition	Thermal decomposition may result in release of carbon dioxide and carbon monoxide
Hazardous polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Potassium hydroxide Oral LD ₅₀ (Rat) 273 mgm/kg Butyl glycol ether Oral LD ₅₀ (Rat) 1300 mgm/kg
Ingestion	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
Eyes	Corrosive. Causes burns which can result in permanent injury.
Skin	Causes severe irritation and if untreated burns
Carcinogenic	No evidence of carcinogenic properties
Chronic Effects	Repeated or prolonged skin contact may cause chronic dermatitis.

12. ECOLOGICAL INFORMATION

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

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13. DISPOSAL CONSIDERATIONS

Spills & Disposal	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.
Disposal	Land fill, sewer (small quantities). Refer to Land Waste Management Authority in your State

14. TRANSPORT INFORMATION

Transport Information	This material is classified as hazardous
Proper Shipping Name	Caustic alkali liquid
UN.NO.	1719
Packaging Group	111
Hazchem Code	2R
DG Class	8

15. REGULATORY INFORMATION

Regulatory Information	Classified as hazardous according to criteria of NOHSC
	Poisons Schedule S5
Hazard Category	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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