



CHALLENGE CHEMICALS AUST.

ABN: 68 059 129 568



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

Product Name: XH KLEEN

Recommended use: Heavy duty alkaline cleaning.

Supplier: Challenge Chemicals Australia
ABN: 68 059 129 568
Street Address: 6 Butcher Street
KWINANA
PERTH W.A. 6167

Telephone: (08) 9419 5577
Facsimile: (08) 9419 4958

Emergency Telephone number: (08) 9419 5577 (7.00am to 4.30pm)
0418 923 266

2. HAZARDS IDENTIFICATION

Hazardous according to criteria of NOHSC.

Hazard Category Corrosive (C)

R-phrases(s) R35
R41

S-phrases(s) S1/2
S24/25
S26
S36/37/39
S45
S50

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: White granules.

| CHEMICAL ENTITY | CAS NO. | PROPORTION (% weight per weight) |
|------------------|------------|-------------------------------------|
| Sodium Hydroxide | 1310- 73-2 | 91 |

All other ingredients determined
to be non-hazardous.

All the constituents of these materials are listed on the Australian Inventory of Chemical
Substances (AICS).

MATERIAL SAFETY DATA SHEET

Hazard Classification: Dangerous Goods, Hazardous Substance – Corrosive (C)

Class: 8

Poisons Schedule: Schedule 6

4. FIRST AID MEASURES

Poison Information Centres in each State capital city can provide additional assistance for scheduled poisons. Ring 13 11 26.

Ingestion: Immediately rinse mouth with water. Give water to drink. Do NOT induce vomiting. If vomiting occurs, place victim's face downwards, head lower than hips to prevent vomit entering lungs. Seek immediate medical assistance.

Eye Contact: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek medical assistance.

Skin Contact: Immediately wash contaminated skin with plenty of water. For gross contamination, immediately drench with water and remove clothing. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering, or irritation occurs seek medical advice

Inhalation: Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible, either on site or at the nearest hospital.

Notes to physician: Treat symptomatically and as for strongly alkaline corrosive material.

5. FIRE-FIGHTING MEASURES

Hazchem code: 4W

Fire fighting further advice: Not combustible. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion. XH KLEEN when wetted may react violently.

Suitable extinguishing media: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination. For small spills, hose away with copious amounts of water. Collect and seal in properly labeled containers for disposal.

7. HANDLING AND STORAGE

Storage: As for class 8 dangerous goods. Keep containers closed at all times. Store in cool area away from acids and foodstuffs. Do not store in aluminum or galvanized containers or use die-cast zinc or aluminum bungs. Plastic or steel bungs should be used. Observe good occupational hygiene. Remove contaminated clothing before entering eating areas.

Handling: Always wash hands after handling prior to eating, drinking, smoking or going to the toilet.

MATERIAL SAFETY DATA SHEET

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits.

No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia)

Engineering Measures: No special requirements.

Personal Protection Equipment: Avoid skin and eye contact. Wear protective clothing, closed footwear, pvc or rubber gloves and safety glasses, goggles or face mask.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: White granules.

Specific Gravity: Not applicable
Rel Vapour Density: Not determined
Vapour Pressure: Not determined
Flash Point: Not applicable
Flammability Limits: Not applicable
Autoignition Temp (C): Not applicable
% Volatile by Volume: Not applicable
Solubility in Water: Total

Melting Point (C): Not applicable
Boiling Point (C): Not determined
Decomp. Point (C): Not determined
Sublimation Point: Not determined
pH: 14.0 (1% solution)
Viscosity: Not determined
Evaporation Rate: Not determined

10. STABILITY AND REACTIVITY

Stability: Shelf Life – XH KLEEN, when stored in a cool area is a stable product and will not deteriorate within a reasonable time. Avoid conditions of heat and freezing. Avoid contact with aluminum, zinc, brass, galvanized and painted surfaces and acids.

11. TOXICOLOGICAL INFORMATION

Main Symptoms: No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

Acute

Ingestion: Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, swelling of the larynx, burns to the oesophagus.

Eye Contact: A severe eye irritant. Contamination of the eyes can result in permanent injury. Corrosive to eyes: contact can cause corneal burns.

Skin Contact: Contact with skin will result in severe irritation. Repeated or prolonged skin contact may lead to irritant contact dermatitis. Corrosive to skin – may cause skin burns. Skin contact often does not cause pain, thus care should be taken to avoid contaminating gloves and boots

Inhalation: Inhalation of dusts will result in respiratory irritation and possible harmful corrosive effects.

Chronic Effects: No data available for XH KLEEN.

MATERIAL SAFETY DATA SHEET

Toxicity Data: No data available for XH KLEEN.

For component:

Sodium Hydroxide – Oral LD₅₀ – 2463 mg/kg (Rat)
Oral LD₅₀ mouse 117mg/kg (intraperitoneal)
Skin irritation 50mg/24hr rabbit moderate
Eye irritation 100mg/24hr rabbit severe

12. ECOLOGICAL INFORMATION

No data available for XH KLEEN.

Elevation of pH at point of entry and immediate surrounds will be toxic to aquatic organisms.

Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. May be greatly diluted or carefully neutralized with dilute acid and flushed to drain with copious amounts of water. Alternatively, normally suitable for disposal at an approved land waste site.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods for the purpose of transport by road or rail. Refer to relevant regulations for storage and transport requirements.

UN-NO: 1759

CLASS: 8

HAZCHEM CODE: 4W

ERG: 37

PACKING GROUP: II

Proper shipping name: Corrosive Solid N.O.S. (Contains sodium hydroxide)

Segregation Dangerous Goods: Dangerous goods of Class 8 (corrosive) are incompatible in placard load with any of the following: Class 1, 4.3, 5, 6, 7.

15. REGULATORY INFORMATION

Hazardous according to criteria of Worksafe Australia.

Hazard Category

Corrosive (C)

| | | |
|--------------|--|--|
| R-phrases(s) | R35 R41 | Causes severe burns Risk of serious damage to eyes |
| S-phrases(s) | S1/2 S24/25 S26 S36/37/39 S45 S50 | Keep locked up and out of the reach of children Avoid any inhalation, contact with skin and eyes. Wear suitable protective clothing and gloves In case of contact with eyes, rinse immediately with plenty of water and seek medical advice Wear suitable protective clothing, gloves and eye/face protection In case of accident or if you feel unwell, seek medical advice immediately (show label whenever possible) Do not mix with acids |

Poisons Schedule (AUST): Schedule 6

Product Name: XH Kleen

Issued: 17/10/11

Version: A/1

4/5

MATERIAL SAFETY DATA SHEET

16. OTHER INFORMATION

Literary Reference: 1. M.S.D.S – Sodium Hydroxide 50% - Redox – May 2008

This MSDS summarises at the date of issue or best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Challenge Chemicals Australia and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

END OF M.S.D.S