



# CHALLENGE CHEMICALS AUST.

ABN: 68 059 129 568



## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

**Product Name:** NU HEAVIKLEEN

**Recommended use:** Manual and soak cleaning of heavy organic soils.

**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	60
Sodium Carbonate	497-19-8	30

All other ingredients determined  
to be non-hazardous.

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

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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:** 2R

**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.

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

## 6. ACCIDENTAL RELEASE MEASURES

Slippery when spilt. 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 as NU HEAVIKLEEN absorbs ambient moisture. 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.

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## 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 – NU HEAVIKLEEN is a stable product and will not deteriorate. 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 may result in permanent injury. Corrosive to eyes: contact can cause corneal burns.

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

**Inhalation:** Inhalation of mists may result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema.

**Chronic:** No data available for NU HEAVIKLEEN.

**Toxicity Data:** No data available for NU HEAVIKLEEN.

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For components:

Sodium Hydroxide – Oral LD<sub>50</sub> – 2000 mg/kg (Rat)  
Intaperitoneal (Mouse) LD<sub>50</sub> – 40 mg/kg  
Oral LD<sub>50</sub> Rabbit 500mg/kg  
Dermal Rabbit Adult 500mg/24hr  
Severe irritation eye Rabbit adult 50mg/24hr  
Severe irritation IPR LD<sub>50</sub> Mouse 40mg/kg

Sodium Carbonate - Oral LD<sub>50</sub> = 2463 mg/kg RAT (intra peritoneal)  
Oral LD<sub>50</sub> Mouse 117mg/kg  
Eye effects = Severe irritant rabbit 100mg/24hr  
Moderate eye irritation 50mg/24hr  
Skin effects = Non irritating to intact skin. Minor irritation may occur on abraded skin

## 12. ECOLOGICAL INFORMATION

No data available for NU HEAVIKLEEN.

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:** 2R

**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, 8.

## 15. REGULATORY INFORMATION

Hazardous according to criteria of Worksafe Australia.

Hazard Category      **Corrosive (C)**

R-phrases)      **R35**      Causes severe burns.  
                         **R41**      Risk of serious damage to eyes.

S-phrases)      **S1/2**      Keep locked up and out of the reach of children  
                         **S24/25**      Avoid any inhalation, contact with skin and eyes. Wear suitable protective clothing and gloves  
                         **S26**      In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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<b>S36/37/39</b>	<i>Wear suitable protective clothing, gloves and eye/ face protection</i>
<b>S45</b>	<i>In case of accident or if you feel unwell, seek medical advice immediately (show label whenever possible).</i>
<b>S50</b>	<i>Do not mix with acids.</i>

*Poisons Schedule (AUST) Toxic Substance (NZ): Schedule 6*

### **16. OTHER INFORMATION**

*Literary Reference: 1. M.S.D.S – Sodium Hydroxide – Redox – May 2008  
2. M.S.D.S – Sodium Carbonate – Redox – August 2007*

*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