Safety Data Sheet

1. SUBSTANCE IDENTIFICATION/ PREPARATION AND COMPANY DETAILS

Product Name: Heavy Duty Degreaser

Recommended use: HEAVY DUTY CLEANER AND DEGREASER

Supplier: Stelco Chemicals International Pty Ltd
ACN: 151 834 347

Street Address: 46 – 48 Henderson Road
Rowville 3178
Australia

Telephone: +61 3 9757 3100
Facsimile: +61 3 9763 8243

Emergency Telephone Number: **0412 318 882**

2. HAZARDS INDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia

GHS classification:

Skin corrosion/irritation, Category 1A, **H314**

Signal word: **Danger**

Hazard statements:
H314: Causes severe skin burns and eye damage.

Precautionary statements:
P101: If medical advice is needed, have product container or label at hand.
P260: Do not breathe mist/vapours/spray.
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P301 + P312 + P330 + P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
P303 + P361 + P353: IF ON SKIN (or hair): Take off/remove immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before use.
P304 + P340 + P310: IF INHALLED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:
P405: Store locked up.

Disposal:
P501: Dispose of contents/ container to an approved waste disposal plant.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.
Class 8: Corrosive solid.

Poisons Schedule (Aust) / Toxic Substance(NZ): S6
This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Hazard Codes
Sodium Hydroxide	1310-73-2	5 – 10 %	H335, H314
2-butoxyethanol	111-76-2	< 5%	H302, H332, H312, H315, H319
Disodium Cocoampho Dipropionate	68604-71-7	< 5%	H318
Triethanolamine	102-71-6	≤ 1%	H319, H315, H335
Sodium Laureth Sulphate	9004-82-4	< 1%	H302, H319, H315
Non hazardous materials	-	to 100%	-

4. FIRST AID MEASURES

First aid measures
If poisoning occurs, contact a doctor or Poisons Information Centre. (Phone Australia 131 126; New Zealand 03 474 7000).

Ingestion: Rinse mouth with water. Give water to drink. Do NOT induce vomiting. Seek immediate medical assistance.

Eye contact: Immediately irrigate with copious quantities of water until medical help is available. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

Skin contact: Immediately wash contaminated skin with plenty of water. Remove contaminated clothing and wash before reuse. If 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. Seek medical advice if effects persist.

Most important symptoms and effects, both acute and delayed
Refer to section 2 and 11.

Indication of any immediate medical attention and special treatment needed
Notes to physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Specific Hazards: Non-combustible material.

Fire fighting further advice: Not combustible. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

Suitable extinguishing media: Not combustible, however, if material is involved in a fire use: Water jets, water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

Hazchem Code: 2R

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear protective equipment to prevent skin and eye contamination.

Environmental precautions: Avoid release to the environment.

Methods and materials for containment and clean up: Collect and seal in properly labelled containers for disposal. Wash area down with excess water.

7. HANDLING AND STORAGE

Storage: Keep dry. Keep containers closed at all times – check regularly for spills. Stor away from incompatible materials (section 10)

Handling: Avoid skin and eye contact

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standard for constituents:

Chemical name	CAS No.	TWA (ppm)	TWA (mg/m^3)	STEL (ppm)	STEL (mg/m^3)	Advisory carcinogen category	Other advisory information
Sodium Hydroxide	1310-73-2	-	2 (Peak Limitation)	-	-	-	-
2-Butoxyethanol	111-76-2	25	121	-	-	Sk	-
Triethanolamine	102-71-6	-	5	-	-	-	-

As published by the National Occupational Health and Safety.
TWA – the Time-Weighted Average airborne concentrations over an eight-hour working day, for a five-day working week over an entire working life.
STEL (Short Term Exposure Limit) – the average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour work day. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Peak Limitation – a ceiling concentration which should not be exceeded over a measurement period which should be a short as possible but not exceeding 15 minutes.
These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure Standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering measures: Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Use with local exhaust ventilation. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES(S),
Avoid skin and eye contact and inhalation. Wear overalls, chemical goggles and impervious gloves. Avoid generating and inhaling vapour. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or reusing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour	:	Thin, reddish pink liquid with slight “soap-type” odour
Melting Point (°C)	:	approx. 100
Vapour Pressure	:	Not Available
Percent Volatile by volume	:	95.0
Specific Gravity	:	approx. 1.0
pH (concentrate)	:	13.0
pH (use dilution of)	:	12.5 (1:100)
Solubility in water	:	Complete
Other Data	:	None
Flash Point (°C)	:	None, Not flammable

10. STABILITY AND REACTIVITY

Chemical Stability: Product is stable under normal conditions of use and storage.

Conditions to avoid: None known.

Incompatible materials: Incompatible with acids, oxidising agents

Hazardous decomposition products: Decomposition products may include the following materials: Carbon oxides, nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Sodium hydroxide: Oral (rat) LD50 = 325mg/kg
2-Butoxy ethanol: Oral (rat) LD50: 530-3000 mg/kg, Dermal (rabbit) LD50: 100-610 mg/kg
Triethanolamine: Oral (rat) LD50 = 8680mg/kg

Skin corrosion/irritation: Causes severe skin burns.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitisation:	No data available.
Germ cell mutagenicity:	No data available.
Cancerogenicity:	No data available.
Reproductive toxicity:	No data available.
Specific Target Organ Toxicity (STOT): - single exposure:	No data available.
Specific Target Organ Toxicity (STOT): - repeated exposure:	No data available.
Aspiration hazard:	No data available.

Likely routes of exposure: Skin contact. Eye contact. Ingestion.

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 and overexposure occurs are:
Acute Effects

Ingestion:	Swallowing can result in nausea, vomiting and abdominal pain.
Eye contact:	A severe eye irritant. Contamination of eyes can result in permanent injury. Corrosive to eyes; contact can cause cornea burns.
Skin contact:	Repeated or prolonged skin contact may lead to irritant contact dermatitis. Contact with solutions may result in irritation.
Inhalation:	Inhalation of dust will result in respiratory irritation.
Long term effects:	No information available for this product.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Sodium hydroxide: LC50=40.4mg/L of Crustacea (Ceriodaphnia) Triethanolamine: 96-hour LC50=169mg/L of algae (Scenedesmus)
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Other adverse effects:	No data available

13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. Normally suitable for disposal at 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:	1719
Class:	8 Corrosive
Hazchem Code:	2R
EPG:	8A1
Packing Group:	II
Proper Shipping Name:	CAUSTIC ALKALI LIQUID, N.O.S. contains Sodium Hydroxide

Marine Transport: Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.:	1719
Class-primary:	8 Corrosive
Packing Group:	II
Proper Shipping Name:	CAUSTIC ALKALI LIQUID, N.O.S. contains Sodium Hydroxide

Air Transport: Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No.:	1719
Class-primary:	8 Corrosive
Packing Group:	II
Proper Shipping Name:	CAUSTIC ALKALI LIQUID, N.O.S. contains Sodium Hydroxide

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), in bulk, poisonous gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxide4s (Class 5.2), radioactive substances (Class 7), however exemptions may apply.

15. REGULATORY INFORMATION

This material is hazardous according to health criteria of Safe Work Australia:

Skin corrosion/irritation, Category 1A, H314

Poisons Schedule (Aust) / Toxic Substance (NZ): S6.

All of the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

This Material Safety Data sheet has been prepared by Stelco Chemicals Pty Ltd
This MSDS summarises at the date of issue our best knowledge of the health and safety information of the product, and in particular how to safely handle and use the product in the workplace. As each workplace is different each user must, prior to use, review thus MSDS in the context of how the user intends to handle and use the product in the workplace.
If clarification of further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.