



APEX CHEMICALS (S) PTE LTD

132 TUAS SOUTH AVENUE 2
WEST POINT BIZHUB, SINGAPORE 637171
TEL: 64835350 FAX: 64835359
E-mail: apexchem@singnet.com.sg

SAFETY DATA SHEET – PRODUCT NO. A-400

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name / Trade Name	A-400 COIL KLEEN
Recommended Application	Cleaning of External Coil, Renovator and Re-conditioner
Chemical Family	Not available.
Chemical Formula	Not applicable
Manufacturer / Supplier	Apex Chemicals (S) Pte Ltd 132 Tuas South Avenue 2 West Point Bizhub, Singapore 637171 Tel : (65) 6483 5350 Fax : (65) 6483 5359 Email : apexchem@singnet.com.sg
Emergency Phone Number	(65) 6483 5350 Or Call Fire / SCDF 995
CAS #	Mixture
Current Revision Date	11/04/2016

2. HAZARDS IDENTIFICATION



Corrosive to Metals - Category 1
Skin Corrosion - Sub-category 1A
Eye Damage - Category 1

Signal word:	Danger
Health Hazard:	H314 Causes severe skin burns and eye damage H302 + H312 Harmful if swallowed or in contact with skin
Precautionary statements:	P260 - Do not breathe mist, vapours, spray P264 - Wash exposed skin thoroughly after handling P280 - Wear protective gloves, protective clothing, eye protection, face protection P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER/doctor/... P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to comply with local, state and federal regulations



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3.COMPOSITION AND INFORMATION ON INGREDIENTS

% by Weight Legend : Less than 10% = L, 10 to 60% = M, 60 to 100% = H

Name	CAS #	% by Weight
Sodium Hydroxide	1310-73-2	M
Sodium Metasilicate	6834-92-0	L
Nonionic Surfactant	127087-87-0	L
Disodium Cocoampho Dipropionate	68604-71-7	L
2-Butoxyethanol	111-76-2	L
Water	7732-18-5	H

4. FIRST AID MEASURES

- Eye Contact** : Immediately hold eye open and rinse slowly with water for at least 15 minutes. If irritation persists, seek medical advice.
- Skin Contact** : Flush with large amounts of water, use soap if available. Remove grossly contaminated clothing, including shoes and launder before reuse. If Irritation persists, seek medical advice.
- Inhalation** : Remove victim to fresh air and seek immediate medical attention. If breathing stops, apply artificial respiration.
- Ingestion** : Seek immediate medical attention. Do not induce vomiting unless directed to do so by a poison control or doctor. Do not give anything via mouth to an unconscious person.
- Immediate medical attention /special treatment** : Consult a doctor or poisons information centre.

5. FIRE FIGHTING MEASURES

- Products of Combustion** : Not available.
- Fire Fighting Media and Instruction** : Not available.
- Special Remarks on Fire Hazards** : Not available
- Special Remarks on Explosion Hazards** : Not available .

6. ACCIDENTAL RELEASE MEASURES

- Personal Precaution/Protection** : In case of large spill, wear full suit, boots, gloves and face shield.
- Environmental Precautions** : Do not allow to enter watercourses by draining or impounding. If spillage does enter sewers or watercourses, immediately inform the appropriate water authorities.
- Methods and Materials For all Containment and cleaning up** : Confine spill, and stop leak at source. If possible, ventilate area and evacuate non-essential personnel. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Dispose of absorbed residue as per local authority regulations requirement. Cautiously neutralize remainder with dilute acid solution.



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7. HANDLING AND STORAGE

- Precautions** : Ensure that eyewash station and safety shower is proximal to the workstation location. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapor/spray.
- Incompatibility** : Strong acids, oxidizers, reactive metals.
- Storage** : Corrosive materials should be stored in a separate safety cabinet or room. Keep out of reach of children. This product should be stored AWAY from oxidizing materials and strong bases. Not for use or storage in or around the home.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Control** : Good general ventilation should be sufficient to control airborne levels.

Personal Protection

- Eyes** : Splash goggles.
- Body** : Long pants and long sleeves to avoid skin contact. Apron and boots.
- Respiratory** : Wear appropriate respirator when ventilation is inadequate.
- Hands** : Gloves (impervious).

- Hygiene recommendation** : Keep an eyewash fountain available. Keep safety shower available.

Exposure Limits

Name of Substance : Sodium Hydroxide

TWA : 2mg/m³, OSHA (PEL)

Consult local authorities for acceptable limits

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow Liquid
Odor	Characteristics
pH	13 - 14
Boiling/Condensation Point	> 100°C
Melting/Freezing Point	Not applicable
Flash Point	None
Evaporation Rate	< 1 compared to water
Flammability	Product is not considered flammable
Upper Explosive Limit (UEL)	Not available
Lower Explosive Limit (UEL)	Not available
Vapor Pressure	Not available
Vapor Density	> 1 (Air =1)
Relative Density	1.08 – 1.18
Solubility	Soluble in water
Partition Coefficient (Octanol-Water)	Not applicable
Auto-Ignition Temperature	Not available
Decomposition Temperature	Not applicable



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10. STABILITY AND REACTIVITY DATA

Stability : The product is stable under normal storage conditions
Incompatibility with Various Substances : Strong acids
Hazardous Decomposition Products : Not available

11. TOXICOLOGICAL INFORMATION

Routes of Entry : Skin contact, ingestion or eye contact.

Acute Effects on Humans

Eyes : Severely corrosive to the eyes. Eye contact can result in corneal damage or blindness.

Skin : Severe skin irritant. Prolonged or repeated contact can cause chemical burns.

Inhalation : Irritating to the mucous membranes of the nose, throat and difficulty in breathing. Prolonged exposure may result in tissue damage.

Ingestion : Extremely corrosive to the mouth and throat. May result in severe chemical burns. May cause severe abdominal pain, nausea and vomiting.

Chronic Effects on Humans : Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause lung damage, choking and unconsciousness.

12. ECOLOGICAL INFORMATION

Eco-toxicity

Not available.

Degradation

Not available.

Products of Biodegradation

Not available

Toxicity of the Products of Biodegradation

Not available

13. DISPOSAL CONSIDERATIONS

Waste Information : Waste may be disposed off in accordance with federal, state and local environmental control regulation.

Waste Stream : Not available.

14. TRANSPORT INFORMATION

UN Number 1719
UN Proper Shipping Name Caustic Alkaline Liquid, N.O.S.
Transport Hazard Class(es) 8
Packing Group II
Maritime Transportation Not available
Special Provisions for Transport Not available



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15. REGULATORY INFORMATION AND PICTOGRAMS

Labeling According to EC Directives

Hazard Symbol



Contains

Other Classifications

C - Corrosive

Sodium Hydroxide

Risk Phrases

R22 : Harmful if swallowed

R35 : Causes severe burns

Safety Phrases

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 : After contact with skin, wash immediately with plenty of water.

S37/39 : Wear suitable gloves and eye/face protection.

16. OTHER INFORMATION

Last Revision Date Issued

April 2016

Contact Information

Apex Chemicals (S) Pte Ltd

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NOTICE TO READER

To the best of our knowledge, the information contained herein is believed to be accurate and reliable. It is the user's obligation to evaluate and use this product safely and comply with all applicable laws and regulations. The above named supplier and its vendor make no other warranty or representation of any kind or implied concerning the product including no implied warranty of merchantability. The product is offered solely for your consideration, investigation and verification. No license or immunity under any patents is granted or implied.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.