CHEM CLEAN LIMITED

MATERIAL SAFETY DATA SHEET

LIME A-WAY

Revision Number 4a, Revision Date 14.02.01

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Code	HOU150BT
Product Name	LIME A-WAY
Synonyms	Multi-purpose Lime Solvent and Cleaner
Manufacturer and Supplier	CHEM CLEAN LTD #1 Trincity Drive Trincity Industrial Estate Trincity Trinidad and Tobago

EMERGENCY TELEPHONE NUMBER (868) 223 2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS	CHEMICAL NAME	% WEIGHT
7664-38-2	Phosphoric Acid	34 min

3. HAZARDS IDENTIFICATION

Emergency Overview:

- Corrosive
- Based upon available toxicity information for this and closely related materials, it is anticipated that this material causes severe irritation and possible burns

Eye Contact	♦ Causes severe irritation ♦ Possible chemical burns
Skin Contact	♦ Causes irritation ♦ Prolonged contact can cause severe burns which may not be immediately painful or visible
Inhalation	♦ Inhalation of spray mist can cause irritation ♦ Possible damage to mucous membranes of nose and throat
Ingestion	♦ Harmful if swallowed ♦ Can cause serious damage to mucous membranes of mouth, throat and digestive tract
General Advice	♦ See First Aid Section
Properties affecting Health	♦ Possible respiratory damage from inhalation of mist

Principle Routes of Exposure	♦ Eye ♦ Skin ♦ Inhalation

4. FIRST AID MEASURES

General Advice	♦ Show this Safety Data Sheet to the Doctor in attendance
Skin Contact	♦ Immediately remove contaminated clothing and wash before reuse ♦ Immediately flush skin with plenty of cool running water for at least 15 minutes ♦ Immediate Medical Attention is required if irritation persists or burns develop
Eye Contact	♦ In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes ♦ Keep eyes wide open while rinsing ♦ Immediate medical attention is required
Inhalation	♦ If affected, move to fresh air ♦ If breathing is difficult, give oxygen
Ingestion	♦ If swallowed, immediately drink a large quantity of raw egg, milk or milk of magnesia then drink 3-4 glasses of water ♦ Do not induce vomiting ♦ Rinse mouth thoroughly ♦ Never give anything by mouth to an unconscious person ♦ Immediate medical attention is required
Aggravated Medical Conditions	♦ Pre-existing skin disorder ♦ Possible respiratory damage

5. FIRE-FIGHTING MEASURES

Flash Point	♦ N/A
Suitable Extinguishing Media	♦ Water – spray ♦ As appropriate for surrounding fire – product will not burn
Extinguishing media which must not be used for safety reasons	♦ N/A
Specific Hazards	♦ Cool exposed containers with water spray to prevent pressure build-up ♦ Must wear NIOSH approved self-contained breathing apparatus and protective clothing ♦ To minimize gas generation, flood burning material with large quantities of water
Special exposure hazards arising from the substance, or preparation itself, its combustion products or	♦ Material is corrosive ♦ May ignite combustible materials and produce gases ♦ Avoid exposure to dusts, mists and splashes

released gases	
Special Protective Equipment for fire-fighters	♦ As in any fire, wear NIOSH approved self-contained breathing apparatus and full protective gear
Specific Methods	♦ Cool containers / Tanks with water spray ♦ Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	♦ Do not inhale mist, do not in eyes or skin, do not swallow ♦ Use personal protective equipment
Environmental Precautions	♦ Discharge in accordance with Government Regulations
Methods for cleaning up	♦ Small spills: Neutralize with mild alkaline solution then wash down with large quantities of water in sanitary sewer ♦ Large spills: Dike to prevent runoff. Reclaim as much as possible. Absorb remainder with inert material (sand or vermiculite) and place in compatible container for disposal. Flush residue with large amounts of water into sanitary sewer. ♦ Cleaning up personnel should wear appropriate protective equipment

7. HANDLING AND STORAGE

Handling

Technical Measures/Precautions	♦ Avoid contact with skin, eyes and clothing ♦ Do not inhale mist, do not get in eyes or on skin, do not swallow
Safe Handling Advice	♦ Wash hands immediately after contact to avoid hand-eye transfer

Storage

Technical Measures/Precautions	♦ Keep containers tightly closed in a cool, dry area. ♦ Store in properly labeled containers ♦ Do not contaminate water, food or feed ♦ Do not mix with anything but water
Incompatible Products	♦ Do not mix with alkaline or chlorine containing cleaners, peroxides or reducing agents ♦ Avoid contact with aluminum, zinc, other soft metal or galvanized metal, or other metals except as directed on label
Specific use(s)	♦ Lime-scale remover for Bathrooms and Kitchens

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Measures	♦ The use of local exhaust ventilation is not normally required
Personal Protective Equipment	
Hand Protection	♦ Neoprene or rubber gloves with cuffs

Eye Protection	♦ Tightly fitting chemical splash goggles
Respiratory Protection	♦ None, if used in adequately ventilated area ♦ In case of insufficient ventilation, wear NIOSH approved acid respiratory equipment
Skin and Body Protection	♦ Suitable facilities for quick drenching or flushing should be provided within the work area for immediate emergency use
Hygiene Measures	♦ Keep away from food, drink and feed ♦ Wear suitable gloves and eye/face protection
Environmental Exposure Controls	♦ Do not inhale mist, do not get into eyes or on skin, do not swallow

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State	Clear Liquid
Color	Green
Odor	

Important Health Safety and Environmental Information

Molecular Wt.	N/A
pH (1% solution)	1.7 – 2.0
Boiling pt	N/A
Specific gravity	1.12 – 1.20
Viscosity (CSTS)	Not specified
Solubility in water	100%
Vapor Pressure	N/A
Vapor Density (AIR=1)	N/A
Evaporation Rate (WATER:1)	N/A
Freezing Point	N/A
Volatile Organic Compounds (Total VOC's)	N/A

10. STABILITY AND REACTIVITY

Stability	♦ Stable under normal conditions
Conditions to avoid	
Materials to avoid	♦ Avoid contact with concentrated acids, may cause violent reactions ♦ Avoid contact with aluminum, zinc, other soft metal or galvanized metal
Hazardous Decomposition Products	♦ None determined
Polymerization	♦ Will not occur

11. TOXICOLOGIAL INFORMATION

Acute Toxicity

Component Information

Product Information

LD50/oral/rat	
Local effects	
Skin irritation	Cause severe irritation Prolonged contact causes severe burns which may not be easily painful or visible
Eye irritation	Causes severe burns
Sensitization	Skin sensitizer
Specific effects	Can cause serious damage to tissues if ingested
Carcinogenic Effects	None
Mutagenic Effects	Not determined
Reproductive toxicity	Not determined
Target Organ Effects	Mucous membranes of mouth, throat and digestive tract

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Component Information

CAS	Chemical Name	% Weight
N/A	N/A	N/A

Product information

Aquatic Toxicity: Do not discharge into lakes, streams, ponds or public waterways unless in accordance with Government Regulations.

Other Information

13. DISPOSAL CONSIDERATIONS

Waste from residues/Unused products	Do not discharge into lakes, streams, ponds or public waterways unless in accordance with Government Regulations. Consult your local, state or federal Environmental Protection Agency before disposing of any chemicals. Refer to the Environmental Management Authority (EMA) for complete waste disposal regulations on corrosive material
Contaminated Packaging	Empty containers should be taken for recycling, recovery or waste disposal
Further Information	

14. TRANSPORT INFORMATION

Domestic (Land, D.O.T.)

Proper Shipping Name: Compound, Cleaning Solution

Hazard Class: 8

UN Number: UN1805

Packing Group: III

Information reported for product/size: N/A

International (Water, I.M.O.)

Proper Shipping Name:	Compound, Cleaning Solution
Hazard Class:	8
UN:	UN1805
Packing Group:	III

Information reported for product/size: N/A

Air transport

UN Number:	UN1805
Hazard Class:	8
Packaging Group:	III

15. REGULATORY INFORMATION

N/A

16. OTHER INFORMATION

Literary Reference	Specialty Cleaners
Other	The information in the Material Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, we assume no liability resulting from use of MSDS information.

End of Safety data sheet