

PRODUCT SAFETY DATA SHEET

1 IDENTIFICATION OF PREPARATION AND THE SUPPLIER

Trade Name: Catering Descale (Acid descale)
Supplier: Chemical Solutions
42 Kennel Lane
Fetcham
Surrey KT22 9PJ
0870 2408893

2 INFORMATION ON INGREDIENTS

Product Description: Aqueous solution of hydrochloric acid, phosphoric acid, non-ionic surfactant and corrosion inhibitors.

Hazardous Ingredients: Material or Component	CAS No	% Range	Symbol	Risk Phrases
Hydrochloric acid	7647-01-0	10-25	C,Xi	34, R37
Phosphoric acid	7664-38-2	0-5	C	34
Alcohol Ethoxylate	68439-45-2	1-10	Xn	22, 36/38
Monoethyl ether of dipropylene glycol	34590-94-8	0-5%		

3 HAZARDS IDENTIFICATION

Irritating to eyes, respiratory system and skin.

4 FIRST AID MEASURES

Eyes: Immediately flood with copious amounts of clean water, holding the eyelids apart for at least 10 minutes. Obtain immediate medical attention.

Skin: Immediately wash with water and remove contaminated clothing. Continue washing with soap and water.

Ingestion: Wash out mouth with water, then give plenty of milk or water to drink and obtain urgent medical attention, showing the label. Do not induce vomiting.

Inhalation: Remove patient from exposure. If there is respiratory distress, give oxygen. Obtain medical attention if symptoms persist.

5 FIRE FIGHTING MEASURES

Extinguishing Media: if involved in fire, may emit noxious fumes. Keep containers cool by water spray. Normal extinguishing media.

Protective Equipment for Fire Fighting: Normal protective equipment.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear full protective clothing and eye/face protection.

Environmental Precautions: Wash spillage area with plenty of water. Flush washings to a sewage treatment system. Spillages or uncontrolled discharges into watercourses must be alerted to National Rivers Authority.

Spillages: Absorb with sand, earth or other suitable absorbent material. Transfer to a container for disposal according with local regulations.

7 HANDLING AND STORAGE

Handling: Avoid contact with eyes and skin. Wear gloves and eye/face protection when pouring.

Storage: Store in a cool place in the original container. Keep tightly closed. Keep away from hypo chlorite and other oxidising agents.

8 PERSONAL PROTECTION/EXPOSURE CONTROLS

Respiratory Protection: Only necessary when dealing with major spillage or where ventilation is poor.

Hand Protection: Rubber gloves.

Eye Protection: Eye protection recommended.

Skin Protection: Heavy duty overalls.

Occupational Exposure Limits:

Hazardous Ingredient(s)	LTEL 8hr TWA		STEL (15 mins)		Type	Notes
	ppm	mg/m3	ppm	mg/m3		
Phosphoric acid	1		3	OES		
Hydrogen chloride		5	7	OES		
Monoethyl ether of dipropylene glycol	150ppm (skin)		TLV 100ppm			
Hydrochloric Acid	STEL(15min) 5ppm		(7.6 mg/m ³)			
Phosphoric Acid	STEL(15min) 2mg/m ³					

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Colour: Clear Liquid
Odour: Characteristic
pH Value: 0
Boiling Range (oC): 102
Melting Point (oC): -2
Flash Point (oC): Not applicable
Auto Ignition Temp. (oC): Not applicable
Explosive Limits in Air: Not applicable
Vapour Pressure @20oC: No data
Relative Density @20oC: 1.045 - 1.50
Water Solubility: Soluble
Other Data:

10 **STABILITY AND REACTIVITY**

Conditions to Avoid: Storage above 40oC.
Materials to Avoid: Oxidising agents, bleaches.
Hazardous Decomposition: Chlorine may be evolved after mixing with bleach.

11 **TOXICOLOGICAL INFORMATION**

Eye Contact: Severely irritating to eyes.
Skin Contact: Irritating to skin.
Ingestion: Low oral toxicity, but ingestion may cause irritation of the gastro-intestinal tract.
Inhalation: Not hazardous under conditions of good ventilation.
Monoethyl ether of dipropylene glycol LD50 5130MG/ Kg oral rat > 19000 mg /Kg skin rabbit
Phosphoric Acid LD50 (oral rat) 1530mg/kg

12 **ECOLOGICAL INFORMATION**

Biodegradability: This product, at use dilutions, is readily broken down by biological sewage treatment plants.
Toxicity: Harmful to fish and other aquatic life.
Effect on Effluent Treatment: At levels found in effluent, will have no adverse effect on biological treatment plants.
Distribution: Completely water soluble: bioaccumulation is unlikely.
Mobility: Surfactants or bactericide will not build up in sediment or sewage sludge.
Monoethyl ether of dipropylene glycol LC50 fathead minnow > 10000 mg /L
EC50 daphnia magna = 1919 mg/ L
IC0 bacterial inhibition = 4168 mg /L
Not considered harmful to aquatic organisms.

13 **DISPOSAL CONSIDERATIONS**

Product: Dispose of large spillages by absorption in suitable absorbents and bury on authorised landfill site according to local regulation.
Dispose of product this way or by incineration under approved controlled conditions using incinerators suitable for the disposal of noxious chemical waste.
Packages: Wash out containers with water, running the washings to a sewage treatment system. Dispose of empty containers according to local regulations.

14 **TRANSPORT INFORMATION**

Classification for Transport: Irritant
UN Number:
UN Proper Shipping Name:
ADR/RID Class:
ADR/RID Item No.:
IMDG Packaging Group: III
IMDG Class:

15 **REGULATORY INFORMATION**

EEC Classification: Irritant: Hazard symbol 'Xi'
Risk Phrases: R36/38: Irritating to eyes and skin.

Safety Phrases:

S2: Keep out of reach of children.
S24/25: Avoid contact with eyes and skin.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek immediate medical advice.
S28: After contact with skin wash immediately with plenty of water.
S37: Wear suitable gloves.
S46: If swallowed, Wash out mouth, then drink plenty of milk or water, and seek medical attention immediately, showing the container.
S50: Do not mix with other chemicals especially chlorine releasing bleach as toxic gas will be evolved.

16 **OTHER INFORMATION**

This data sheet was prepared in accordance with Directive 91/155/EEC
Conforms to CHIP 3 (2002)
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