

CENTURYWISE CW18 EFFLORESCENCE REMOVER

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Product : CW18 Efflorescence Remover REVISION 3 AUG 2009

Company : Centurywise Ltd, Unit 2, HNG House, Stuart Road,
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Contents amongst other ingredients :-

<u>Substance</u>	<u>SIN no.</u>	<u>CAS no.</u>	<u>EC no.</u>	<u>% w/w</u>
Hydrochloric acid	1789	7647-01-0	231-595-7	10 %
Non-ionic detergent	not listed	not listed	not listed	< 5%

3. HAZARD IDENTIFICATION

PRINCIPAL HAZARD :
Strongly acidic solution, risk of serious damage to eyes, irritating to skin and respiratory system

HAZARDOUS COMPONENT (S)	PRODUCT CLASSIFICATION					RISK AND SAFETY PHRASE REFERENCE NUMBERS
Hydrochloric Acid	T	C	Xn	Xi	F	R 36/ 37/ 38
				^		
	Xi IRRITANT					S 2 S 26

RISK PHRASES (R)	SAFETY PHRASES (S)
Irritating to eyes, respiratory system and skin (R 36/ 37/ 38)	Keep out of reach of children (S 2) In cases of contact with eyes, rinse immediately with plenty of water, and seek medical advice. (S 26)

C.O.S.H.H. - CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH

Does product contain an EH 40 Regulated Substance ? YES If yes continue.....		
DOES THE EH 40 SUBSTANCE HAVE AN OCCUPATIONAL EXPOSURE STANDARD ? YES		
DOES THE EH 40 SUBSTANCE HAVE A MAXIMUM EXPOSURE LIMIT ? NO		
EH 40 LISTED COMPONENT	L.T.E.L.	S.T.E.L.
Hydrogen Chloride (HCl)	1 ppm 8 hour TWA 2 mg/cu.mtr 8 hour TWA	5 ppm 15 min TWA 8 mg/cu.mtr 15 min TWA

4. FIRST-AID MEASURES

a) STANDARD HSE GUIDANCE - <i>IF NO DIPHOTERINE IS AVAILABLE</i>	
SKIN	Drench area with clean water for 10- 15 minutes. If irritation is apparent seek medical attention. Irritation/redness will result if slow to react. DO NOT DELAY.
EYES	Irrigate immediately with clean water for 10 – 15 minutes, holding eyelid open if necessary, and seek medical attention. Severe irritant effect could result if slow to react.

b) BEST METHOD - USING DIPHOTERINE	
DIPHOTERINE IS AN EYE/ SKIN DECONTAMINATION SOLUTION FOR RAPID FIRST-AID TREATMENT OF CHEMICAL SPLASHES. DIPHOTERINE STOPS THE PENETRATION OF THE CHEMICAL PRODUCT.	
SKIN	Do not wash affected area with water. Spray Diphoterine directly onto the area. Product works best if applied within sixty seconds of occurrence – Hence an aerosol needs to be carried by the operator. Diphoterine will purge the harmful content from the affected area, and leave neutralized. Wash away residues. If irritation should persist, seek medical attention.
EYES	Do not wash eye with water. Irrigate immediately (within 60 seconds of occurrence) with Diphoterine spray. Wash away the residues. If irritation persists, seek medical attention.
USE OF THIS PRODUCT REQUIRES TRAINING. TO PURCHASE PRODUCT & TO ENQUIRE ABOUT TRAINING COURSES CONTACT.... KAYS MEDICAL (LIVERPOOL) – TEL : 0151 482 2830 , FAX : 0151 207 3384	

c) INGESTION	Wash mouth with plenty of clean water. Drink water or milk to dilute hazard, and seek IMMEDIATE MEDICAL ATTENTION showing this data sheet. DO NOT INDUCE vomiting due to risk of aspiration of acid vapours.
d) INHALATION	Remove to fresh air and keep warm. Seek medical attention if symptoms persist.
MEDICAL ADVICE	CW18 should not be allowed to come into contact with skin, eyes , or clothing. If so, REACT QUICKLY to address the hazard.

5. FIRE FIGHTING MEASURES

Product is not flammable.

Extinguishing media : Water spray or fog , foam, dry powder.

Special exposure hazards : Irritating fumes (hydrogen chloride). Thermal decomposition releases toxic gas (chlorine).

Special precautions : Wear full suit protection and breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Safety precautions :** Wear appropriate personal protective gear (see section 8)
- Environmental procedures :** Prevent entry into drains.
- Clean-up procedure :** Contain in confined area using sand, earth, or suitable material. Neutralize with addition of soda ash or lime.

7. HANDLING & STORAGE

Handle in accordance with CHIP/ COSHH requirements ; Refer to Sections 3 (Hazards Identification) and 8 (Exposure Controls/ Personal Protection).

Store in a well ventilated area at ambient temperatures.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

- Wear goggles, or full face mask.
- Wear protective chemical proof suit and boots if danger of splashing.
- Wear appropriate respiratory protection if poor ventilation or high concentrates (i.e. spillage) .
- Avoid breathing mist or spray.

PROTECTIVE EQUIPMENT :



COLLECTIVE EMERGENCY EQUIPMENT - Have 25 litres of clean water available, along with first-aid box containing minimum two aerosols or sachets of Diphoterine First-aid solution, and eye bath.

9. PHYSICAL & CHEMICAL PROPERTIES

- Appearance..... pale gel
- Odour..... acidic (sharp)
- Relative density..... 1.05 – 1.15 @ 20 deg.C. (typical)
- Boiling Point..... 102 deg. C
- pH neat..... 1
- Solubility..... miscible in all proportions

10. STABILITY & REACTIVITY

- Avoid exposure to high temperatures.
- Reacts with concentrated sulphuric acid to produce hydrogen chloride gas.
- Reacts with concentrated nitric acid to give nitryl chloride (toxic).
- Reacts with oxidising agents to give toxic chlorine gas.
- Avoid contact with bleach products.
- Can liberate harmful gases from contact with metal salts, e.g. cyanides, nitrates, sulphates, acetylides and carbides.
- Contact with metals liberates hydrogen gas.

Stainless steel – is a generic name given to steel containing a minimum 10.5% chromium. It is not a single material, there are many different grades and qualities. The cheapest ‘ferritic’ grade is the type most commonly used for decorative building features, i.e. balustrades, signs, trims, frames panels etc. It is not very resistant to acid. Hydrochloric acid will remove the passive layer and cause surface staining and corrosion pits. Some expensive, high quality grade stainless steels are extremely resistant to acid but it is always best to assume the worst case and **MASK ALL STAINLESS STEEL FEATURES.**

11. TOXICOLOGICAL PROPERTIES

Eye contact will cause irritation, give rise to pain and is likely to cause ocular lesions if immediate first aid is not administered.

Skin contact will cause irritation resulting in significant inflammation if not attended to. Repeated or prolonged contact could damage the skin tissue and cause severe defatting. Under such circumstances the skin is less resistant to other substances and sensitisation and dermatitis can occur.

Ingestion will irritate trachea and cause pain and sickness. Prolonged exposure is likely to cause inflammation and can damage tissue. Inhalation of mist or spray will cause irritation and if severe could cause discomfort in breathing. As with all chemicals individuals with lung disorders may experience more severe reactions.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity -	Toxic due to pH effects
Degradability -	The surfactants used in this product are biodegradable in line with the requirements of EC directives
Mobility -	Not expected to be persistent in the environment
Bioaccumulative potential -	No evidence for

When used for its intended purpose, this product should not cause adverse effects in the environment.

13. DISPOSAL INFORMATION

This product does not contain any prescribed substance under the Environmental Protection Act (Prescribed Processes and Substances) Regulations 1991, but is classified as special waste under the Control of Substances (Special Waste) Regulations 1996.

Under ‘DUTY OF CARE’ the disposal of unwanted stocks should be conducted in a safe and proper manner by authorised and consented methods.

Do not allow into drains or water courses, or dispose of where ground for surface waters may be affected.

Wastes, including empty containers, should be disposed of in accordance with regulations made under the Control of Pollution Act 1974, and the Environmental Protection Act 1990.

14. TRANSPORT INFORMATION

EEC Regulation - C, Corrosive, UN1789, Hazchem 2R
IMDG/UN - Hydrochloric acid solution, UN1789, Class 8, PG 11
RID/ADR - Class 8, Item 5 (b)



Label for conveyance - **Corrosive :-**

15. REGULATORY INFORMATION



LABEL FOR SUPPLY : - **Corrosive**

The Health and Safety information on the label as required by Regulation 9 of C.H.I.P. is quoted under Section 3 – Hazard Identification.

The relevant OES/ MEL (if applicable) as required by C.O.S.H.H. Regulations is stated in Section 3.

EC Directives –

Dangerous Substances Directive – 67/548/ EEC and adaptations.

Dangerous Preparations Directive – 88/379/ EEC

Safety Data Sheets Directive – 91/155/ EEC

U.K. Regulations –

Control of Pollution Act 1974

Control of Pollution (Special Wastes) Regulations 1980 SI 1709

The Control of Substances Hazardous to Health Regulations 2002 (as amended)

Dangerous Substances (Notification and Marking of Sites) Regulations 1990 SI 304

Environmental Protection Act 1990 (as amended)

Environmental Protection (Duty of Care) Regulations 1991 SI 2839 (as amended)

Carriage of Dangerous Goods and use of Transportable Pressure Equipment Regulations 2004

16. OTHER INFORMATION

Data source..... Centurywise Ltd

Use product only as directed.

Information compiled in accordance with Chemicals (Hazard Information and Packaging for Supply) Regulations (Chip 3) 2002 as amended , the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (SI 1999/437) as amended, and the Management of Health & Safety at Work Regulations 1999, as amended.

DISCLAIMER :

THE ABOVE INFORMATION IS PROVIDED FOR HEALTH AND SAFETY PURPOSES ONLY, AND DOES NOT IMPLY ANY CHEMICAL SPECIFICATION. THE DATA HAS BEEN COMPILED FROM SOURCES CONSIDERED ACCURATE. THE USER SHOULD SATISFY HIMSELF THAT THE PRODUCT IS ENTIRELY SUITABLE AND SAFE FOR HIS OWN PARTICULAR PURPOSES. IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE BEST PRECAUTIONS NECESSARY FOR THE SAFE HANDLING AND USE OF THIS PRODUCT FOR HIS UNIQUE APPLICATION. THIS DATA SHOULD NOT BE CONSTRUED AS ABSOLUTELY COMPLETE, SINCE ADDITIONAL DATA MAY BE DESIRABLE WHEN PARTICULAR CONDITIONS OR CIRCUMSTANCES EXIST.

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