

# CENTURYWISE CW6 ALUMINIUM CLEANER

## 1. IDENTIFICATION OF SUBSTANCE/ PREPARATION AND COMPANY

**Product :** CW6 Aluminium Cleaner REVISION 6    AUG. 2009

**Company :** Centurywise Ltd, Unit 2, HNG House, Stuart Road,  
Bredbury, Stockport, Greater Manchester, SK6 2SR.

**Tel :** 0161 - 494 6801                      **Fax :** 0870 123 1542

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Contents amongst other ingredients :-

<u>Substance</u>	<u>SIN no.</u>	<u>CAS no.</u>	<u>EINECS.</u>	<u>% w/w</u>
Hydrofluoric acid	1790	7664-39-3	231-634-8	4 %
Phosphoric acid	1805	7664-38-2	231-633-2	8 %

## 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
Hydrofluoric Acid	T+	C	Xn	Xi	F	R 26/ 27/ 28, 35
	^	^				
	T+	TOXIC				S 1/ 2, 23/24/25/26, 28
	C	CORROSIVE				S 36/37/38/39, 45
Phosphoric Acid	T+	C	Xn	Xi	F	R 34
		^				
	C	CORROSIVE				S 1/ 2, 26 S 36/37/39, 45

RISK PHRASES ( R )	SAFETY PHRASES ( S )
<p>R 26/ 27/ 28 , Very toxic by inhalation, in skin contact, and if swallowed.</p> <p>R 35, Causes severe burns</p>	<p>S1/ 2, Keep locked up &amp; out of reach of children</p> <p>S23, Do not breath gas / fumes / vapour / spray.</p> <p>S24/25, Avoid contact with skin and eyes.</p> <p>S26, In case of contact with eyes, rinse immediately with plenty of water.</p> <p>S28, After contact with skin, wash immediately with plenty of water.</p> <p>S36/37/39, Wear suitable protective clothing, gloves, and eye/ face protection.</p> <p>S38, In case of insufficient ventilation, wear suitable respiratory equipment.</p> <p>S45, In case of an accident, or if you feel unwell, seek medical advice immediately.</p>

**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 Flouride ( Hf )	3 ppm 8 hour TWA 2.5 mg/cu.mtr 8 hour TWA	1.8 ppm 15 min TWA 1.5 mg/cu.mtr 15 min TWA
Phosphoric Acid ( H3PO4 )	1 mg/cu.mtr 8 hour TWA	2 mg/cu.mtr 15 min TWA

**4. FIRST-AID MEASURES**

**a) STANDARD HSE GUIDANCE - IF NO HEXAFLUORINE IS AVAILABLE**

<b>SKIN</b>	<p>Drench area with clean water for 10- 15 minutes.</p> <p>If available , generously apply calcium gluconate gel to affected area. Massage continually and use repeat applications until 15 minutes after pain subsides.</p> <p>Seek immediate medical attention.</p>
<b>EYES</b>	<p>Irrigate immediately with clean water for 10 – 15 minutes, holding eyelid open if necessary, and seek medical attention.</p> <p>Seek immediate medical attention.</p>

## **b) BEST METHOD - USING HEXAFLUORINE**

**HEXAFLUORINE IS A IS AN EYE/ SKIN FIRST-AID DECONTAMINATION SOLUTION, DEVELOPED FOR THE TREATMENT OF SMALL HYDROFLUORIC ACID SPLASHES.**

**HEXAFLUORINE RINSES AND ABSORBS HF ACID SIMULTANEOUSLY. THE PRODUCT HAS THE ABILITY ( 100 TIMES GREATER THAN CALCIUM GLUCONATE ) TO BIND BOTH HYDROGEN AND FLUORIDE IONS; PREVENTING CAUSTIC BURNS, AND SYSTEMIC FLUORIDE POISONING.**

### **SKIN**

Do not wash affected area with water.  
Apply Hexafluorine directly onto the area. Product works best if applied within sixty seconds of occurrence – Hence a sachet needs to be carried by the operator.  
  
Hexafluorine will purge the acid 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 Hexafluorine .  
The natural secretions of the eye will clear away the neutralized excess liquid.  
Wash away 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**

<b>c) INGESTION</b>	Drink milk or six effervescent tablets of calcium gluconate ( Sandocal ) in water, and seek IMMEDIATE MEDICAL ATTENTION showing this data sheet. DO NOT INDUCE vomiting due to risk of aspiration of acid vapours.
<b>d) INHALATION</b>	Remove to fresh air and keep warm. Seek medical attention if symptoms persist.
<b>MEDICAL ADVICE</b>	CW6 should not be allowed to come into contact with skin, eyes , or clothing. If so, REACT QUICKLY to address the hazard.

For further information regarding H.F. injuries contact Guys Hospital Medical Toxicology Unit , telephone no. 0207 777 5370.

## **5. FIRE FIGHTING MEASURES**

### **Extinguishing media :**

Powders, halons, carbon dioxide.

### **Special exposure hazards :**

Not flammable. However it may present a risk in the event of a fire. Reacts on contact with water, toxic vapours ( halogen compounds) are released.

### **Special precautions :**

Wear full suit protection and breathing apparatus. Stay upwind.  
Evacuate personnel away from the fumes. Use suitable extinguishers.  
Cool down the containers/equipment exposed to heat with a water Spray. Contain the spread of extinguishing fluids. Do not breath fumes

### **Hazardous decomposition products :**

Very corrosive gases/ vapours/ fumes of fluorides.

## 6. ACCIDENTAL RELEASE MEASURES

**Safety precautions :** Wear appropriate personal protective gear (see section 8)  
If spillage occurs on the public highway, indicate the danger, and notify the police/ fire brigade if the spillage is over 5 litres.  
Do not attempt to take action without suitable protective equipment  
Do not approach from downwind.  
Do not breath fumes, do not smoke.

**Environmental procedures :** Prevent entry into drains.

**Clean-up procedure :** Stop leak, if possible without risk. Do not touch spilled material.  
Neutralize with alkaline material...( lime, crushed limestone, sodium bicarbonate, or soda ash ). Flush area with water. Provide

ventilation

and confine spill.

## 7. HANDLING & STORAGE

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

Keep container tightly closed, in a well ventilated area at ambient temperatures. May attack some plastic and rubber coatings. Will attack glass and most ceramics.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Wear full face visor.

Wear protective chemical proof suit, gloves, 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 sachets of Hexafluorine First-aid solution, two tubes of calcium gluconate gel, tablets, and eye bath.

## 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance..... pale straw liquid  
Odour..... acidic (sharp)  
Relative density..... 1.21 @ 20 deg.C. (typical)  
Boiling Point..... 90 deg. C  
pH neat..... 1  
Solubility..... miscible in all proportions

## **10. STABILITY & REACTIVITY**

STABILITY – Avoid heat, sparks, flames, moisture, contact with combustibles.

MATERIALS TO AVOID - Bases, alkalis ( inorganic ), solid metals, powdered metals, steam, water mixtures. Do not use on limestone, Portland stone, marble, slate, glass, calcited or polished materials.

HAZARDOUS DECOMPOSITION PRODUCTS - Very corrosive gases/vapours/fumes of fluorides.

## **11. TOXICOLOGICAL PROPERTIES**

HEALTH WARNINGS – Exposure.... This product has good warning properties . Gas or vapour is toxic or extremely irritating even on brief exposure. Product may cause skin/eye irritation and burns (corrosive) Toxic through skin absorption ( percutaneous ).

MEDICAL SYMPTOMS - Extreme irritation of eyes and mucus membranes, including burning and tearing. Severe pulmonary irritation. Severe skin irritation. Ingestion may cause severe abdominal pain, nausea and vomiting.

ACUTE & CHRONIC HEALTH HAZARDS - Repeated exposure may cause chronic eye irritation. May cause temporary blindness and severe eye damage. Serious damage to the lining of the nose, throat and lungs. Contact with the concentrated chemical may cause severe skin damage. Swallowed concentrated chemical may cause severe internal injury.

## **12. ECOLOGICAL INFORMATION**

DEGRADABILITY - When diluted the organic ingredients are completely biodegradable. Residues when washed into soil are readily neutralised to form flouride and phosphate. The product presents little ecological hazard when used as recommended due to the great amounts of rinse water used.

PLANTS/ VEGETATION - Completely soaking area of vegetation with water prior to, and immediately after applying product to stone/brickwork should prevent permanent damage to plants. In some cases where specimen or fragile plants are in proximity it is good practise to cover with plastic sheeting and form a sand or soil containment barrier.

ACUTE FISH TOXICITY - Using the correct jetting technique, maximum dilution of the product is achieved and no damage has been found to fish when such debris enters rivers and streams.

**For further information visit - [www.centurywise.co.uk](http://www.centurywise.co.uk) – click on *Techniques* & then click on *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, UN1790 , Hazchem 2PE  
**IMDG/UN** - Hydrofluoric acid solution, 8184 , Class 8, PG 11  
**RID/ADR** - Class 8, 6.1



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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**MANY LOCAL AND NATIONAL AUTHORITY REGULATIONS PERTAIN DIRECTLY OR INDIRECTLY TO THE PRODUCT'S END USE AND DISPOSAL OF CONTAINERS AND UNUSED MATERIALS. IT IS THE PURCHASER'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH ALL APPLICABLE REGULATIONS.**

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