

## 1. Product Identification

<b>Product Code</b>	QF 3173 Descaler
<b>Trade Name</b>	None
<b>Manufacturer</b>	Qualitek-Europe Ltd Unit9,Apex court,Bassendale Road, Bromborough,Wirral CH62 3RE UK Fax 44(0)151-346-1408Tel44(0)151-334-0888
<b>Supplier / Importer</b>	
<b>24 hour Emergency Contact (UK)</b>	Tel 0151-334 -0888

## 2. Composition and information on Components

Hazardous Components	Content	EC No	CAS	Hazard	Risk
Organic Acid Solution	96-100%	-----	-----	C: Corrosive	R 36/37/38 R41 (S2) S26 S39



## 3. Hazard Identification

<b>Main Hazards</b>	The compound is corrosive in the eye, is a severe skin irritant, but is not a skin sensitiser in animals.
<b>Health Effects Inhalation - Ingestion</b>	Inhalation of fumes or ingestion may cause headache, nausea, muscular pain. Irritation of the eyes and nose may result from contact with fumes.
<b>Chronic (Prolonged effects)</b>	Anaemia, insomnia, weakness, constipation, nausea and abdominal pain due to ingestion. Skin burns, damage of mucous membrane, and ulceration due to skin exposure and inhalation.

## 4. First Aid Measures

<b>First Aid - Eyes</b>	Immediately flush the eyes with water for at least 15 minutes, holding the eye open. Obtain medical attention urgently.
<b>First Aid - Skin</b>	Wash thoroughly with water and remove all contaminated clothing as washing proceeds. Seek medical attention urgently.
<b>First Aid - Inhalation</b>	Remove person to fresh air and keep subject warm and at rest. Seek medical attention urgently.
<b>First Aid - Ingestion</b>	Wash out mouth with water. Do not induce vomiting. Keep subject warm and at rest. Seek medical attention urgently.

## 5. Fire Fighting Measures

<b>Extinguishing media</b>	Use Carbon Dioxide, Dry chemical, Alcohol resistant foam.
<b>Special Hazards</b>	Dangerous when exposed to heat of flame. Containers may explode in heat of fire.
<b>Protective Equipment for Fire Fighting</b>	Wear full protective clothing and use breathing apparatus.

## 6. Accidental Release Measures

<b>Personal Precautions</b>	Wear appropriate protective clothing. Eliminate sources of ignition. Vapour is heavier than air and will collect in basements or depressions etc.. Avoid breathing vapour.
<b>Environmental Precautions</b>	Try to prevent the product entering drains or water courses.
<b>Spillages</b>	Small spillages can be flushed with large volumes of water. Larger spillages should be collected for disposal. Contain using absorbent material such as earth, sand or other inert material.

## 7. Handling and Storage

<b>Handling</b>	Use in well ventilated area. Avoid breathing in vapour, mist or resultant cleaning fumes or steam. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Larger containers (20Ltrs) are heavy. Take care when lifting and pouring.
<b>Storage</b>	Storage area should be well ventilated, cool and dry. Store in original containers. Re package into plastic container only if container becomes damaged. Store away from sources of heat.

## 8. Exposure Controls - Personal Protection

### Occupational Exposure Limits

All ingredients are not considered hazardous according to 29 cfr 1910.1200.

<b>Engineering Control Measures</b>	Ensure work area is well ventilated and equipment exhausted. If pouring is needed then this should be arranged so as not to expose the operator to unnecessary vapour levels or splashing.
<b>Respiratory Protection</b>	Respiratory protection if there is a risk of exposure to vapour.
<b>Hand protection</b>	Nitrile rubber gloves or PVC gloves should be used when handling or pouring
<b>Eye Protection</b>	Close fitting Chemical goggles should be worn when handling or pouring.
<b>Skin Protection</b>	Normal work wear but rubber apron if there is a danger of splashing or spillage.
<b>Foot Protection</b>	Wear protective boots or toe caps when handling drums.

## 9. Physical and Chemical Properties

Appearance	Light amber liquid.
Odour	Characteristic Odour
pH	<1.0
Boiling point	112 Deg C @ 760mm Hg
Melting point	n/a
Flash Point	n/a
Auto Ignition Temperature	n/a
Flammability limits in air	Lower : n/a Upper : n/a
Explosion Limits	Lower : n/a Upper : n/a
Vapour pressure	vapour is water
Vapour Density	vapour is water (Air = 1)
Evaporation Rate	<1.0 (BuAc = 1)
Specific Gravity	1.25 +/- 0.004 (H <sub>2</sub> O = 1 @ 25 Deg C)
Solubility	Completely soluble in water

## 10. Stability and Reactivity

Stability	Stable under normal conditions
Conditions to avoid	High temperature
Materials to avoid	Strong oxidising or acidic agents
Hazardous Decomposition Products	May release toxic vapours / gases such as Carbon Monoxide, Carbon Dioxide

## 11. Toxicological Information

Basis of Assessment	Information given is based on product data
Acute Toxicity - Oral	LD <sub>50</sub> > 4242 ml/kg : dose as received by male rats
Acute Toxicity - Dermal	Not tested, corrosive material
Acute Toxicity - Inhalation	LD <sub>50</sub> > 7.7 mg/L in rats
Eye Irritation	Irritant
Skin Irritation	Irritant
Respiratory Irritation	Irritant in animal studies
Skin sensitisation	No data to suggest the product is a sensitiser
(Sub) Chronic Toxicity	Repeated exposure can cause rash.
Human effects	Repeated exposure can cause skin rash, pulmonary irritation headache and irritation of mucous membranes. There may be other health risks but these will vary from person to person.

## 12. Ecological Information

Mobility	The product will readily dissolve in water
Degradability	The product is readily Biodegradable
Bio-accumulation	Not expected to accumulate
Ecotoxicity	24-48 hour LC <sub>50</sub> bluegill sunfish:93 mg/L

### 13. Disposal

**Product** Material is classified as special waste under the COPA regulations 1980 and must be disposed of in accordance with those regulations.

**Containers** Leave labels in tact until containers have been thoroughly cleaned. Empty containers may contain hazardous residues and vapours. Dispose of containers with care.

### 14. Transport Information

**UN Number, Shipping name and Class** 3265  
**Proper Shipping Name** Corrosive Liquid, Acidic, Organic  
**UN Class / Packing Group** 8 / III  
**Packing Symbol** Corrosive

**Trim Card Number** QF3173

### 15. Regulatory Information

**Labelling Information** **Corrosive**



**Risk Phrases** R41 :Risk of serious damage to eyes  
 R36/37/38 :Irritating to eyes, respiratory system and skin

**Safety Phrases** S2 :Keep out of reach of children  
 S26 :In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S39 :Wear eye / face protection

**EC Annex 1 Classification** C :Corrosive

**Regulations / References** Refer to the requirements of all relevant local regulations. For the United Kingdom, see Control of Substances Hazardous to Health Regulations (COSHH), the Health and Safety at Work Act (HSWA) and the Carriage of Dangerous Goods by Road and Rail Regulations 1994.

### 16. Other Information

**Application** See technical data sheet for application information

**Document** Rev 4 –reference to skin sensitisation corrected – various spelling corrections  
 Rev 5 – 24 Hour Emergency Contact No. changed.