




1. Product Identification

Product Code	Everkleen 1005		
Trade Name	Everkleen		
Manufacturer	Qualitek –Europe Ltd	Unit9, Apex Court, Bassendale Road, Bromborough, Wirral CH62 3RE Tel 44(0)151-334-0888 Fax 44(0)151-346-1408	
Supplier / Importer			
24 hour Emergency Contact (UK)	Tel 0151-334-0888		

2. Composition and information on Components

Hazardous Components		Content	EC No	CAS	Hazard	Risk
2-Aminoethanol		35-45%	205-483-3	141-43-5	X _n :Harmful	R20 36/37/38 S2
Tetrahydro-2 furylmethanol		10-12%	202-625-6	97-99-4	X _i :Irritant	R36 S2 S39
2-(2-Butoxyethoxy) Ethanol		20-30%	203-961-6	112-34-5	X _i :Irritant	R36 S2 S26

3. Hazard Identification

Main Hazards	Harmful by inhalation Irritating to eyes, respiratory system and skin
Health Effects Inhalation - Ingestion	Inhalation of the fumes or ingestion may cause headache, nausea, muscular pain. Irritation of the eyes and nose may result from contact with fumes.
Chronic (Prolonged effects)	Anaemia, insomnia, weakness, constipation, nausea and abdominal pain due to ingestion. Skin rash, damage of mucous membrane due to skin exposure and inhalation.

4. First Aid Measures

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

5. Fire Fighting Measures

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

6. Accidental Release Measures

Personal Precautions	Wear appropriate protective clothing. Eliminate sources of ignition. Vapour is heavier than air and will collect in basements or depressions etc.. Avoid breathing vapour.
Environmental Precautions	Try to prevent the product entering drains or water courses.
Spillages	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

Handling	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.
Storage	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	Long Term (8h) OEL TWA	OSHA PEL	ACGIH TLV
2-Aminoethanol	3ppm	3ppm	3ppm
Engineering Control Measures	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.		
Respiratory Protection	Respiratory protection if there is a risk of exposure to vapour.		
Hand protection	Nitrile rubber gloves or PVC gloves should be used when handling or pouring		
Eye Protection	Close fitting Chemical goggles should be worn when handling or pouring.		
Skin Protection	Normal work wear but rubber apron if there is a danger of splashing or spillage.		
Foot Protection	Wear protective boots or toe caps when handling drums.		

9. Physical and Chemical Properties

Appearance	Light amber liquid.
Odour	Characteristic Odour
pH	10.42
Boiling point	170 Deg C @ 760mm Hg
Melting point	n/a
Flash Point	64 Deg C
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	0.02 mm Hg at 50 Deg C
Vapour Density	3.1 (Air = 1)
Evaporation Rate	<2.3 (BuAc = 1)
Specific Gravity	1.035 +/- 0.004 (H ₂ 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 ₅₀ > 1.19 (0.79-1.80) ml/kg : dose as received by male rats LD ₅₀ > 1.07 (0.72-1.59) ml/kg : dose as received by female rats
Acute Toxicity - Dermal	LD ₅₀ > 2.46 (1.79-3.39) ml/kg : dose as received by male rabbits LD ₅₀ > 2.83 (1.61-4.98) ml/kg : dose as received by male rabbits
Eye Irritation	Irritant
Skin Irritation	Irritant
Respiratory Irritation	Irritant in animal studies
Skin sensitisation	May cause skin sensitisation
(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	Poses a significant risk of oxygen depletion in aquatic systems

13. Disposal

Product	Material when diluted to 5-10% concentration meets the requirements of most water authorities for disposal down the drains. Please check with local requirements.
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	2491
Proper Shipping Name	Ethanolamine
UN Class / Packing Group	8 / III
Packing Symbol	8 Corrosive Substance
Trim Card Number	QF1005

15. Regulatory Information



Labelling Information **HARMFUL**

Risk Phrases	R20 :Harmful by inhalation 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	X _n Harmful
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 3. 24 hour CAES number added. Rev 4. 24 hour Emergency Contact No changed.