

## MSDS

### **Name: ELECTROCLEANER EC-303**

Issued: 06/12/2005

Revision No: 1

### **1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

**Product name:** ELECTROCLEANER EC-303

**CAS number:** 79-01-6

**EINECS number:** 201-167-4

**Index number:** 602-027-00-9

**Product code:** TRICLONE

**Synonyms:** ETHYLENE TRICHLORIDE

**Use / description of product:** Toxic or very toxic.

### **2. COMPOSITION / INFORMATION ON INGREDIENTS**

**Hazardous ingredients:** TRICHLOROETHYLENE >90%

### **3. HAZARDS IDENTIFICATION**

**Main hazards:** May cause cancer. Irritating to eyes and skin. Harmful to aquatic organisms, may cause longterm adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness. Possible risk of irreversible effects.

### **4. FIRST AID MEASURES (SYMPTOMS)**

**Skin contact:** There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

**Eye contact:** There may be severe pain. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be vomiting.

Convulsions may occur. There may be loss of consciousness.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

**[Company name; CleanSystem**

Athens

Greece

Tel 00306945088717

### **4. FIRST AID MEASURES (ACTION)**

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the

affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure

the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

### **5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

**Exposure hazards:** Toxic. In combustion emits toxic fumes.

**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### **6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Notify the police and fire brigade immediately. Evacuate the area immediately. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point.

Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding. Alert the neighbourhood to the presence of fumes or gas.

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

## 7. HANDLING AND STORAGE

**Handling requirements:** Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

[cont...]

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational exposure limits**

**TWA (8 hr exposure limit):** 550 mg/m<sup>3</sup> (OES)

**STEL (15 min exposure limit):** 820 mg/m<sup>3</sup> (OES)

**Engineering measures:** Ensure there is exhaust ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves.

**Eye protection:** Safety glasses with side-shields. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**State:** Liquid

**Colour:** Colourless

**Odour:** Characteristic odour

**Also soluble in:** Most organic solvents.

**Viscosity:** Non-viscous

**Boiling point/range°C:** 87.2

**Melting point/range°C:** -87

**Flammability limits %: lower:** 8

**upper:** 44

**Flash point°C:** NONE

**Autoflammability°C:** 420

**Vapour pressure:** 60 mmHg @ 20°C

**Relative density:** 1.465

**pH:** N/A

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Heat. Hot surfaces. Flames.

**Materials to avoid:** Strong oxidising agents. Strong acids.

**Haz. decomp. products:** In combustion emits toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** ELECTROCLEANER EC- 303

IVN MUS LD50 33900 µg/kg

ORL MUS LD50 2402 mg/kg

ORL RAT LD50 4920 mg/kg

**Chronic toxicity:** Danger of serious damage to health by prolonged exposure through inhalation.

Danger of

serious damage to health by prolonged exposure in contact with skin. Danger of serious

damage to health by prolonged exposure if swallowed.

**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

## 12. ECOLOGICAL INFORMATION

**Mobility:** Readily absorbed into soil.

**Persistence and degradability:** Biodegradable.

**Bioaccumulative potential:** No bioaccumulation potential.

**Other adverse effects:** Negligible ecotoxicity.

## 13. DISPOSAL CONSIDERATIONS

**Disposal of packaging:** Arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## 14. TRANSPORT INFORMATION

**ADR / RID**

**UN no:** 1710 **ADR Class:** 6.1

**Packing group:** III **Classification code:** T1

**Shipping name:** TRICHLOROETHYLENE

**Labelling:** 6.1 **Hazard ID no:** 60

**IMDG / IMO**

**UN no:** 1710 **Class:** 6.1

**Packing group:** III **EmS:** 6.1-02

**Marine pollutant:** NO **Labelling:** 6.1

**IATA / ICAO**

**UN no:** 1710 **Class:** 6.1

**Packing group:** III **Packing instructions:** 605(P&CA); 612(PAO)

**Labelling:** 6.1

**15. REGULATORY INFORMATION**

**Hazard symbols:** Toxic.

**Risk phrases:** R45: May cause cancer.

R36/38: Irritating to eyes and skin.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

R68: Possible risk of irreversible effects.

**Safety phrases:** S23: Do not breathe vapour.

S24: Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29/56: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S53: Avoid exposure - obtain special instructions before use.

S57: Use appropriate container to avoid environmental contamination.

**Precautionary phrases:** Restricted to professional users.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**16. OTHER INFORMATION**

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

[