

**Responsibility For Distribution**

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**1. Identification of Product and the Company**

**Trade Name:** ELECTRO CLEANER

**Identification of the Product**

Type of product: Degreasing liquid.  
Use of product: Removal of oil, grease and dirt from electrical and electronic components.  
Company Identification: See heading on Material Safety Data Sheet  
Emergency phone number: See footer on Material Safety Data Sheet

**2. Composition and Information on Ingredients**

Contains:

- Perchloroethylene, 50% - 100%

*Synonyms*

1, 1, 2, 2-Tetrachloroethylene; Carbon bichloride; Carbon dichloride; Percosolvel; Tetrachloroethene

CAS-No.: 127-18-4

M: 118.18 g/mol

Chemical formula:  $\text{Cl}_2\text{CCCl}_2$

- Diisopropylamine, 0.005% - 0.5%

*Synonyms*

N-(1-Methylethyl)-2-propanamine

CAS-No.: 108-18-9

**3. Hazard Identification**

Limited evidence of a carcinogenic effect.  
Harzadous in case of skin contact (irritant)  
Harzadous in case of inhalation (irritant)  
Harzadous in case of eye contact (irritant)  
Slightly hazardous in case of skin contact (permeator)

CLASSIFICATION : R40, R51, R53

#### 4. First Aid Measures

**First Aid Measures**

After Inhalation	: Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen.
After Skin contact	: In case of contact, immediately flush skin with plenty of water. Cover irritated skin with an emollient. Remove contaminated clothing. Wash clothing before reuse.
After Eye contact	: Rinse out with plenty of water with the eyelid held wide open. Remove contact lenses Consult ophthalmologist if irritation occurs.
After Ingestion	: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothes. Get medical attention if symptoms appear.

#### 5. Fire Fighting Measures

<b>Flammability of the Product:</b>	Non-flammable.
<b>Flash point:</b>	Not applicable
<b>Products of Combustion:</b>	Not applicable
<b>Fire Hazards in Presence of Various Substances:</b>	Not applicable
<b>Fire Fighting Media and Instructions:</b>	Not applicable.
<b>Explosion Hazards in Presence of Various Substances:</b>	Risk of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

#### 6. Accidental Releases

**Small Spill:** Absorb with an inert material and put the spilled material in an appropriate waste disposal.

**Large Spill:** Absorb with an inert material and put the spilled material in an appropriate waste disposal.

#### 7. Handling and Storage

* Handling	: Avoid inhalation of mist. Avoid contact with skin. Avoid eye contact. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label.
*Storage	: Keep container in a cool dry place to maintain product quality. Keep out of reach of Children.
Packing Material	: Carbon steel, Stainless steel, Teflon, HDPE, PET
Unsuitable containers	: Aluminium

**8. Measures( Exposure control / Personal Protection)**

- Ventilation System** : Good general ventilation is advisable.
- Personal Protection** : Use organic vapour canister if needed. Long sleeved clothing. Use oil resistant gloves (butyl or nitrile) if needed for sensitive skin.
- Eye Protection** : Safety goggles in case of splashes when using brush.

**9. Physical and chemical properties**

- Appearance and Colour : Colourless liquid
- Odour : Ethereal
- Solubility in water @ 25°C : 0.015g/100ml. It slowly decomposes in water to yield Trichloroacetic and Hydrochloric acids
- pH : 8 – 9.5
- Density (20 °C) : 1.619 g/ml Minimum
- Boiling Point (°C) : 121 Minimum

**10. STABILITY AND REACTIVITY**

- Stability** : Product is stable under normal temperature conditions and recommended use. Strong heating should be avoided as this might result in the decomposition of the product.
- Product is oxidized by strong oxidizing agents. Incompatible with sodium hydroxide, finely divided or powdered metals such as Zinc, aluminium, magnesium, potassium, chemically active metals such as lithium beryllium, barium. Protect from light.

**11. TOXICOLOGICAL INFORMATION****Toxicological data****LD50 / LC50 Individual Ingredients:**

**CAS-No. 127-18-4:** Acute oral toxicity, rat. LD50: 2629 mg/kg; Acute dermal toxicity, rabbit. LD50: >3228mg/kg; Acute toxicity of the vapour, mouse. LC50: 5200mg/kg/4h

**CAS-No. 108-18-9:** Oral, rat: LD50 = 770 mg/Kg; Dermal, rabbit: LD50 1000 mg/Kg; Inhalation, mouse: LC50 4200mg/m<sup>3</sup>/2h.

**CAS-No. 98-54-4:** Oral, rat: LD50 = 4000 mg/Kg; Dermal, rabbit: LD50 = 2288 mg/kg

**Further toxicological information**

After inhalation: Irritations of the mucous membranes.

After skin contact: Irritations and dermal blistering to sensitive skin. It may be absorbed through the skin with possible systemic effects. Prolonged or repeated contact with skin may result in excessive drying of the skin, and irritation.

After eye contact: Contact causes transient eye irritations, lacrimation. Vapours cause eye / conjunctival irritation. Symptoms may include redness and pain.

After swallowing: It can cause nausea, vomiting, diarrhoea, bloody stool. It may affect the liver and the urinary system.

**Further data**

The product should be handled with the care usual when dealing with chemicals.

**12.ECOLOGICAL INFORMATION**

LC 50, 96 Hrs, Fish mg/l 4.8 – 52.2

EC 50, 48 Hrs, DAPHNIA, mg/l 3.2 – 123

IC 50, 72 Hrs, ALGAE, mg/l 10.5 – 509

**MOBILITY**

The product has poor water solubility.

**PRODUCTS OF BIODEGRADATION:**

Hazardous short term degradation products are not likely. Long term degradation products may arise.

**SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION:**

Not available.

**13.DISPOSAL CONSIDERATIONS****GENERAL INFORMATION**

Waste is to be treated as controlled waste. Disposal should be done at a licensed waste disposal site in accordance with the local waste disposal authority.

**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

**14. TRANSPORT INFORMATION**

**DOT classification:** Class 6.1: Poisonous material

**Special Provisions for Transport:** Marine pollutant

**15. REGULATORY INFORMATION**

- R-Phrases : R40 - Limited evidence of a carcinogenic effect.  
R51/ 53 – Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
- S-Phrases : S45-In case of accident or if you feel unwell, seek Medical advice immediately (show the label if possible)  
S53-Avoid exposure-obtain special instructions before use  
S36/37 – Wear suitable protective clothing and gloves.  
S57 – Use appropriate containment to avoid environmental contamination.  
S61 – Avoid release to the environment. Refer to special instructions / safety data sheets.

**16. OTHER INFORMATION**

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