



® APEX CHEMICALS (S) PTE LTD

132 TUAS SOUTH AVENUE 2  
WEST POINT BIZHUB, SINGAPORE 637171  
TEL: 64835350 FAX: 64835359  
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## SAFETY DATA SHEET – PRODUCT NO. A-530

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name/Trade Name</b>	<b>A-530 ELECTRIC MOTOR CLEANER</b>
<b>Recommended Application</b>	Electrical Components Cleaner
<b>Chemical Family</b>	Not applicable.
<b>Chemical Formula</b>	Not applicable
<b>Manufacturer / Supplier</b>	Apex Chemicals (S) Pte Ltd 132 Tuas South Avenue 2 West Point Bizhub, Singapore 637171 Tel : (65) 6483 5350 Fax : (65) 6483 5359 Email : <a href="mailto:apexchem@singnet.com.sg">apexchem@singnet.com.sg</a>
<b>Emergency Phone Number</b>	(65) 6483 5350 Or Call Fire / SCDF 995
<b>CAS #</b>	Mixture
<b>Current Revision Date</b>	12/04/2015

### 2. HAZARDS IDENTIFICATION



Signal word - Warning

Hazard statement(s)

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s) - Prevention

- P201 Obtain special instructions before use.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P391 Collect spillage.



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### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

% by Weight Legend : Less than 10% = L, 10 to 60% = M, 60 to 100% = H		
Name	CAS #	% by Weight
Aliphatic Hydrocarbon	64742-47-8	M
Tetrachloroethylene	127-18-4	H

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	: Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.
<b>Skin Contact</b>	: Remove contaminated clothing. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. Seek medical attention.
<b>Inhalation</b>	: Get to fresh air. If breathing stops, administer artificial respiration. Contact physician or seek emergency medical attention.
<b>Ingestion</b>	: Do not induce vomiting. Keep at rest. Seek prompt medical attention.
<b>Immediate medical attention /special treatment</b>	: Consult a doctor or poisons information centre.

### 5. FIRE FIGHTING MEASURES

<b>Products of Combustion</b>	: Not available.
<b>Fire Fighting Media and Instruction</b>	: Use foam, powder or carbon dioxide. The crew should wear breathing apparatus.
<b>Special Remarks on Fire Hazards</b>	: Possible formation of toxic carbon monoxide when combustion takes place with insufficient oxygen.
<b>Special Remarks on Explosion Hazards</b>	: Not applicable.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precaution/Protection</b>	: In case of large spill, wear full suit, boots, gloves and face shield. Do not breathe vapor. Avoid contact with skin or eyes.
<b>Environmental Precautions</b>	: Do not allow to enter watercourses by draining or impounding. If spillage does enter sewers or watercourses, immediately inform the appropriate water authorities.
<b>Methods and Materials For Containment and Cleaning Up</b>	: Remove all ignition sources and isolate area. Confine spill and stop leak at source. If possible ventilate area and evacuate all non-essential personnel. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Dispose off absorbed residue as per local authority regulations requirements.

### 7. HANDLING AND STORAGE

<b>Precautions</b>	: Ensure eyewash station and safety shower is proximal to the workstation location. Avoid contact with skin or eyes. Do not breathe gas/fumes/vapor/spray.
<b>Incompatibility</b>	: Strong Oxidant Materials.
<b>Storage</b>	: Store in original containers. Keep container lids tightly closed and store in a well ventilated place. Avoid heat and ignition sources. Avoid contact with



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strong oxidizers. Aluminium, Magnesium, Zinc or Titanium should not be used for storage or transfer.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Control** : Good general ventilation should be sufficient to control airborne levels.
- Personal Protection**
- Eyes** : Splash goggles or full face mask.
- Body** : Long pants and long sleeves shirt to avoid skin contact. Apron and boots.
- Respiratory** : Wear appropriate respirator when ventilation is insufficient.
- Hands** : Gloves (impervious).
- Hygiene recommendation** : Keep an eyewash fountain available. Keep safety shower available.
- Exposure Limits**

#### Name of substance : Tetrachloroethylene

France 1993 : VME = 50ppm =  $\text{mg}/\text{m}^3$   
USA - ACGIH 1996 : TLV – TWA = 25ppm =  $170\text{mg}/\text{m}^3$   
USA - ACGIH 1996 : TLV – TWA = 100ppm =  $685\text{mg}/\text{m}^3$

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Colourless Liquid
<b>Odor</b>	Characteristics
<b>pH</b>	Not applicable
<b>Boiling/Condensation Point</b>	Not available
<b>Melting/Freezing Point</b>	Not available
<b>Flash Point</b>	> 65°C
<b>Evaporation Rate</b>	Not available
<b>Flammability</b>	The product has a flashpoint above 65 °C
<b>Upper Explosive Limit (UEL)</b>	Not available
<b>Lower Explosive Limit (UEL)</b>	Not available
<b>Vapor Pressure</b>	Not available
<b>Vapor Density</b>	Not available
<b>Relative Density</b>	1.30 –1.45
<b>Solubility in Water (20°C)</b>	0.16g/l
<b>Partition Coefficient (Octanol-Water)</b>	Not applicable
<b>Auto-Ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available

### 10. STABILITY AND REACTIVITY DATA

- Stability** : The product is stable under normal use conditions.
- Incompatibility with Various Substances** : Avoid contact with open flames, sparks, heat or ignition sources.  
Avoid contact with strong oxidizers, acids, aluminium, magnesium, zinc or titanium (risk of explosion)
- Hazardous Decomposition Products** : Burning may produce carbon monoxide and hydrogen chloride.

### 11. TOXICOLOGICAL INFORMATION



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### Acute Effects on Humans

**Eyes** : Liquid and mist may cause pain and irritation. Vapor can irritate eyes.

**Skin** : Prolonged or repeated contact cause dermatitis.

**Inhalation** : Exposure to high concentrations of vapor or mist cause nausea, cough and unconsciousness.

**Ingestion** : Irritation to the gastrointestinal tract, with nausea and vomiting.

**Acute Toxicity** : LD<sub>50</sub> (Oral, Rat) : 2.2 to 4.4g/kg  
LD<sub>50</sub> (Inhalation, 4 hr, Rat) : 4,000ppm

**Chronic Effects on Humans** : No data available.

## 12. ECOLOGICAL INFORMATION

**Mobility** : Rapid evaporation : 1½ life = 4-10d (river) – 1month(pond)

**Bioaccumulation** : Slight bioaccumulable : Log Pow : 2.35 to 2.98  
Fish, Bioconcentration factor (BCF) (Oncorhynchus mykiss, Lepomis macrochirus) = 40-49

**Acute Toxicity** : Fish LC<sub>50</sub>, 96h (Oryzias latipes) = 1.6mg/l  
Daphnia : EC(1)50, 48 h = 7.5 – 8.5mg/l  
Daphnia : No Effect Concentration, 48h = 0.5mg/l

## 13. DISPOSAL CONSIDERATIONS

**Waste Information** : Waste may be disposed off in accordance with federal, state and local environmental control regulation.

**Waste Stream** : Not available.

## 14. TRANSPORT INFORMATION

**UN Number** 1897  
**UN Proper Shipping Name** Toxic Organic Liquid N.O.S. (Tetrachloroethylene)  
**Transport Hazard Class(es)** 6.1  
**Packing Group** III  
**Maritime Transportation** Not available  
**Special Provisions for Transport** Not available

## 15. REGULATORY INFORMATION

### Labeling According to EC Directives

### Other Classifications

**Risk Phrases** R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 : Harmful : may cause lung damage if swallowed.  
R66 : Repeated exposure may cause skin dryness or cracking.

**Safety Phrases** S23 : Do not breathe gas/fumes/vapor/spray.  
S24 : Avoid contact with skin.  
S57 : Use appropriate container to avoid environmental contamination.



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S62 : If swallowed do not induce vomiting : seek medical advice immediately and show this container or label.

### 16. OTHER INFORMATION

**Last Revision Date Issued** April 2015

**Contact Information** Apex Chemicals (S) Pte Ltd  
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#### **NOTICE TO READER**

To the best of our knowledge, the information contained herein is believed to be accurate and reliable. It is the user's obligation to evaluate and use this product safely and comply with all applicable laws and regulations. The above-named supplier and its vendor makes no other warranty or representations of any kind or implied, concerning the product including no implied warranty of merchantability. The product is offered solely for your consideration, investigation and verification. No license or immunity under any patents is granted or implied.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.