## Kleanium Circuit Board Cleaner

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemtools Kleanium Circuit Board Cleaner **Product Name:** 

**Product Type:** Flux solvent for industrial use. **Part Numbers:** CT-CBC-250, -1L, -5L, -20L

**Company Address:** Chemtools Pty,. Ltd.,

PO Box 463, Emu Plains, NSW 2750

Ph: 1300 738 250

**EMERGENCY PHONE:** Australia: Poisons Information Centre 13 1126

International: Infotrac (708) 918 1900

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	CAS#	%	HSIS TWA	HSIS STEL
2-methyl pentane propan-2-ol acetone cyclohexane n-hexane	107-83-5 67-63-0 67-64-1 110-82-7 110-54-3	30 - 60 30 - 60 < 30 <10	500ppm 1,760mg/m <sup>3</sup> 400ppm 983mg/m <sup>3</sup> 500ppm 1,185mg/m <sup>3</sup> 100ppm 350mg/m <sup>3</sup> 20ppm 72mg/m <sup>3</sup>	1,000ppm 3,500/m <sup>3</sup> 500ppm 1,230mg/m <sup>3</sup> 1,000ppm 2,375mg/m <sup>3</sup> 300ppm 1050mg/m <sup>3</sup>

### 3. HAZARDS IDENTIFICATION

**Hazard Classification:** Hazardous Material, Dangerous Goods according to the criteria of SafeWork

Australia and the ADG-7 code) **Risk Phrases:** R11 - Highly flammable R22 - Harmful if swallowed

R36/38 - Irritating to eyes and skin.

R66 - Repeated exposure may cause skin dryness or cracking.

R67 - Vapours may cause drowsiness and dizziness.

R51 - Toxic to aquatic organisms. R52 - Harmful to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

Safety Phrases: S2 - Keep out of reach of children.

S9 - Keep container in a well-ventilated place.

S16 - Keep away from sources of ignition - No smoking.

S20 – When using do not eat or drink S21 – When using do not smoke

S26 - In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

Skin, Inhalation, Eyes

S46 - If swallowed, seek medical advice immediately and show this container or

label.

S51 - Use only in well ventilated areas. S24/25 - Avoid contact with skin and eyes.

Relevant routes of exposure:

**Potential Health Effects** 

Inhalation: May cause respiratory tract irritation. High concentrations of vapours may cause headache,

fatique, drowsiness and dizziness.

Skin contact: May cause allergic skin reaction. May cause skin irritation. Product has a defatting effect on

Prolonged contact may cause dryness of skin. Contact with eves will cause irritation.

Eye contact: Ingestion: Harmful. May cause lung damage if swallowed.

### 4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing

before reuse. Get medical attention if symptoms occur.

Check for and remove any contact lenses. Immediately flush with copious amounts of Eve contact:

water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time.

Get medical attention.

Do not induce vomiting. Rinse mouth thoroughly. Loosen any tight clothing. Keep individual Ingestion:

calm.

Obtain medical attention.

### 5. FIRE-FIGHTING MEASURES

Flash point: -17°C Cleveland closed cup

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Autoignition temperature: 300°C Flammable/Explosive limits-lower %: 1.2% Flammable/Explosive limits-upper %: 57%

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

Special fire fighting procedures: None Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of carbon. Irritating organic vapours. Keep run-off water out of sewers and water

sources.

Hazchem Code: 3[Y]E

### 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** Extinguish all ignition sources. Ventilate well. Use approved respirator if air contamination is

above accepted level. Prevent product from entering drains or open waters.

Clean-up methods: Soak up with inert absorbent. Store in a partly filled, closed container until disposal.

### 7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapour and mist. Wash

thoroughly after handling.

Storage: For safe storage, store at or below 38°C (100°F). Keep in a cool, well-ventilated area away

from heat, sparks and open flame. Keep container tightly closed until ready for use.

Incompatible products: Refer to Section 10.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: No specific ventilation requirements noted, but forced ventilation may still be required if

concentrations exceed occupational exposure limits.

**Respiratory protection:**Use NIOSH approved respirator if there is potential to exceed exposure limit(s). **Skin protection:**Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Use impermeable gloves and protective clothing as necessary to prevent skin contact.

Neoprene gloves. butyl rubber gloves. Natural rubber gloves.

**Eye/face protection:** Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Colour: Clear, colourless.

Odour: Organic solvents.

pH: Not available

Boiling point/range: 56-82°C.

Melting point/range: Not available

Specific gravity: 0.734 at 20°C.

Vapour density: >1

Vapour density: >1
Evaporation rate: Not available
Solubility in water: Insoluble.

### 10. STABILITY AND REACTIVITY

 Stability:
 Stable.

 Hazardous polymerization:
 Will not occur.

 Hazardous decomposition products:
 Oxides of carbon.

**Incompatibility:** Strong oxidizers. Strong reducing agents.

Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

### 11. TOXICOLOGICAL INFORMATION

### Product toxicity data:

Acetone

2-methyl pentane Expected to be of low toxicity: LD₅₀>2000mg/kg, Rat. Aspiration into lungs when swallowed

or vomited may cause chemical pneumonitis which can be fatal.

n-hexane Oral: LD<sub>50</sub> 28,710 mg/Kg (rat). Irritation eye: 10 mg mild (rabbit). Investigated as a

 $tumorigen,\,mutagen\,\,and\,\,reproductive\,\,effector.$ 

Carcinogenic effects: None by IARC Isopropyl alcohol Oral:  $LD_{50}$  5,045 mg/Kg (rat). Skin:  $LD_{50}$ 

Oral: LD<sub>50</sub> 5,045 mg/Kg (rat). Skin: LD<sub>50</sub> 12.8g/Kg (rabbit) Inhalation LC<sub>50</sub>: 16,000ppm/8hr

rat)

Investigated as a tumorigen, mutagen, and reproductive effector. Carcinogenic effects: IARC Category 3

LD<sub>50</sub> Oral - rat - 5,800 mg/kg Remarks: Behavioural: Altered sleep time (including change in

righting reflex). Behavioural: Tremor. LC<sub>50</sub> Inhalation - Rat - 8 h - 50,100 mg/m3 LD<sub>50</sub> Dermal - Guinea Pig - 7,426 mg/kg

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Irritation and corrosion

Skin - Rabbit - Mild skin irritation - 24 h Eyes - Rabbit - Eye irritation - 24 h

Sensitisation Chronic exposure may cause dermatitis.

Chronic exposure: This product is or contains a component that is not classifiable as to its

carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

Oral:  $LD_{50} > 2,000$  mg/Kg (rat). Skin:  $LD_{50} > 2g/Kg$  (rat) Inhalation  $LC_{50}$ : >20mg/L/4hr (rat)

Investigated as a carcinogen.

### 12. ECOLOGICAL INFORMATION

Cyclohexane

**Ecological information:** Dangerous to the environment if discharged into watercourses.

### 13. DISPOSAL CONSIDERATIONS

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

### 14. TRANSPORT INFORMATION

Proper shipping name: Flammable Liquid, N.O.S. (HEXANES/ISOPROPYL ALCOHHOL/ACETONE MIXTURE)

UN No.: 1993
Hazard class or division: 3[Y]E
Packing group: ||
International Air Transportation (ICAO/IATA):

Proper shipping name: Flammable Liquid, N.O.S. (HEXANES/ISOPROPYL ALCOHHOL/ACETONE MIXTURE)

Hazard class or division: 3[Y]E
Identification number: 1993
Packing group: ||
Water Transportation (IMO/IMDG):

Proper shipping name: Flammable Liquid, N.O.S. (HEXANES/ISOPROPYL ALCOHHOL/ACETONE MIXTURE)

Hazard class or division: 3[Y]E Identification number: 1993 Packing group: II. Marine pollutant: No.



### 15. REGULATORY INFORMATION

Poisons Schedule (SUSDP): Not Listed.

ADG Code: Class 3 Dangerous Good – Flammable Liquid

NOHSC: Hazardous GHS Pictograms:





Abbreviations/Acronyms:

NOHSC – National Occupational Health and Safety Commission. NIOSH – National Institute of Occupational Health and Safety. ACGIH – American Conference of Government Industrial Hygienists.

HSIS – Hazardous Substances Information System

SUSDP – Standard for the Uniform Scheduling of Drugs and Poisons.

TWA – Time Weighted Average TLV – Threshold Limit Value. STEL – Short Term Exposure Limit PEL – Permissible Exposure Limit

SUSDP – Standard for the Uniform Scheduling of Drugs & Poisons.

ADG - Australian Dangerous Goods

IARC - International Agency for Research on Cancer

Date of MSDS: December 2012

**DISCLAIMER:** 

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The information contained within this MSDS applies only to the Chemtools product to which the sheet relates. The information provided is based on our best knowledge at the time of issue.

The information contained within this MSDS is believed to be accurate and is given in good faith. However, no warranty is made, either expressed or implied, regarding its accuracy or any liability arising out of the use of the information herein or

When used in other preparations, formulations, or in mixtures, it is necessary to ascertain whether the classifications of the hazards have changed. The attention of the user is drawn to the possibility of creating other hazards when the product is used for purpose other than that for which it was recommended. In such cases, a reassessment may be necessary and should be made by the user.

This safety data sheet should only be used and reproduced in order that the necessary measures are taken relating to the protection of health and safety at work.

It is the responsibility of the handlers to pass on the totality of the information contained within this document to any subsequent person(s) who will come in to contact with, handle or use this product in any way.

They should check the adequacy of the information provided within this MSDS before passing it on to their customers/staff.

**End of MSDS** 



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