

Kleanium DeFlux-It G2

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Chemtools Kleanium DeFlux-It G2 Flux Remover
Product Type: Flux solvent for industrial use.
Part Numbers: CT-DF-300, -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	107-83-5	30 - 60	500ppm 1760mg/m ³	1000ppm 3,500/m ³
propan-2-ol	67-63-0	10 - 30	400ppm 983mg/m ³	500ppm 1,230mg/m ³
propylene glycol monomethyl ether	107-98-2	10 - 30	100ppm 369 mg/m ³	150ppm 553 mg/m ³
cyclohexane	110-82-7	<10	100ppm 350 mg/m ³	300ppm 1050 mg/m ³
n-hexane	110-54-3	<10	20ppm 72mg/m ³	
d-Limonene	138-86-3	<10	Not Found	

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.
R43 - May cause sensitisation by skin contact.
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: S20 – When using do not eat or drink
S21 – When using do not smoke
S51 – Use only in well ventilated areas.
S24/25 – Avoid contact with skin and eyes.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: May cause respiratory tract irritation. High concentrations of vapours may cause headache, fatigue, drowsiness and dizziness.

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

Eye contact: Contact with eyes will cause irritation.

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.

Eye contact: Check for and remove any contact lenses. Immediately flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.

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

5. FIRE-FIGHTING MEASURES

Flash point: 0°C Cleveland closed cup
Autoignition temperature: >200°C
Flammable/Explosive limits-lower %: 0.7%

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Flammable/Explosive limits-upper %:	8.3%
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 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:	>80°C.
Melting point/range:	Not available
Specific gravity:	0.78 at 20°C.
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:	
2-methyl pentane	Expected to be of low toxicity: LD ₅₀ >2000mg/kg, Rat. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
n-hexane	Oral: LD ₅₀ 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 12.8g/Kg (rabbit) Inhalation LC ₅₀ : 16,000ppm/8hr (rat) Investigated as a tumorigen, mutagen, and reproductive effector. Carcinogenic effects: IARC Category 3
1-methoxy-2-propanol	Oral: LD ₅₀ 5,660 mg/Kg (rat). Skin: LD ₅₀ 13.0g/Kg (rabbit) Inhalation LC ₅₀ : 10,000ppm/5hr (rat) Investigated as a reproductive effector Carcinogenic effects: None by IARC
Cyclohexane	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.



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d-limonene: ORAL (LD₅₀): Acute: 4400 mg/kg [Rat]. 5600 mg/kg [Mouse]. DERMAL (LD₅₀): Acute: 5000 mg/kg [Rabbit]. LC₅₀ [Inhalation]: Not available.

12. ECOLOGICAL INFORMATION

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: HEXANES
UN No.: 1208
Hazard class or division: 3[Y]E
Packing group: II
International Air Transportation (ICAO/IATA):
Proper shipping name: HEXANES
Hazard class or division: 3[Y]E
Identification number: 1208
Packing group: II
Water Transportation (IMO/IMDG):
Proper shipping name: HEXANES
Hazard class or division: 3[Y]E
Identification number: 1208
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:



16. OTHER INFORMATION

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: April 2013

DISCLAIMER:

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 the product supplied.

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.

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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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