A NEW FORCE IN CHEMICAL MANUFACTURING

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SAFETY DATA SHEET

ISSUED SEPTEMBER 2014 (VALID 5 YEARS FROM DATE OF ISSUE)

DF KLEANIUM DEFLUX-IT G2 AEROSOL

SECTION 1 - IDENTIFICATION OF THE MATERIAL

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PRODUCT NAME Kleanium DeFlux-It G2 Flux Remover Aerosol

PRODUCT TYPE Flux Solvent for Industrial Use

PART NUMBER CT-DF-300 AVAILABLE SIZES 300g

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS#	%	TWA (HSIS)	STEL (HSIS)
2-methyl pentane	107-83-5	30-60	500ppm	1000ppm
			1760mg/m ³	3500mg/m ³
Propan-2-ol	67-63-0	10-30	400ppm	500ppm
			983mg/m ³	1230mg/m ³
Propylene glycol monomethyl ether	107-98-2	10-30	100ppm	150ppm
			369mg/m ³	553mg/m ³
Cyclohexane	110-82-7	<10	100ppm	300ppm
			350mg/m ³	1050mg/m^3
n-hexane	110-54-3	<10	20ppm	
			72mg/m ³	
d-Limonene	138-86-3	<10	Not listed	
Carbon dioxide	124-38-9	<10	5000ppm	30,000ppm
			9000mg/m ³	54,000mg/m ³

SECTION 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.

SECTION 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.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point: 0°C Cleveland closed cup

Autoignition temperature: >200°C
Flammable/Explosive limits-lower %: 0.7%
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: 2[Y]E

SECTION 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.

SECTION 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.

SECTION 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.

SECTION 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.

SECTION 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).

SECTION 11 - TOXICOLOGICAL INFORMATION

Product toxicity data:

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: LD₅₀ 28,710 mg/Kg (rat). Irritation eye: 10 mg mild (rabbit). Investigated as a

umorigen, mutagen and reproductive effector.

Carcinogenic effects: None by IARC

Isopropyl alcohol Oral: LD₅₀ 5,045 mg/Kg (rat). Skin: LD₅₀ 12.8g/Kg (rabbit) Inhalation LC₅₀: 16,000ppm/8hr

(rat)

Investigated as a tumorigen, mutagen, and reproductive effector.

Carcinogenic effects: IARC Category 3

1-methoxy-2-propanol Oral: LD₅₀ 5,660 mg/Kg (rat). Skin: LD₅₀ 13.0g/Kg (rabbit) Inhalation LC₅₀: 10,000ppm/5hr

(rat)

Investigated as a reproductive effector Carcinogenic effects: None by IARC

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

Investigated as a carcinogen.

d-limonene: ORAL (LD₅₀): Acute: 4400 mg/kg [Rat]. 5600 mg/kg [Mouse]. DERMAL (LD₅₀): Acute: 5000

mg/kg [Rabbit]. LC₅₀ [Inhalation]: Not available.

SECTION 12 - ECOLOGICAL INFORMATION

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

SECTION 13 - DISPOSAL CONSIDERATIONS

Recommended method of

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

SECTION 14 - TRANSPORT INFORMATION

UN Domestic (Land) ADG:

Proper shipping name: AEROSOLS
UN No.: 1950
Hazard class or division: 2[Y]E

Packing group: None allocated

IMDG:

Proper shipping name: AEROSOLS Identification No.: UN1950

Hazard class or division: 2.1

Packing group: None allocated

Marine Pollutant: No

MON-FLAMMANIE MON-TORNO MAN

International Air Transportation (ICAO/IATA):

Proper shipping name: AEROSOLS

Hazard class or division: 2.1 Identification number: 1950

Packing group: None allocated

SECTION 15 - REGULATORY INFORMATION

Poisons Schedule (SUSDP): Not Listed.

NOHSC: Hazardous.

GHS Pictograms:



SECTION 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

DISCLAIMER

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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 purposes other than that for which it was recommended. In such cases, a reassessment may be necessary and should be made by the user.

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