

Chemtools Pty Ltd	Chemwatch Hazard Alert Code: 4
Chemwatch: 5606-90	Issue Date: 26/06/2023
Version No: 2.1	Print Date: 27/06/2023
Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements	S.GHS.AUS/NZ.EN.E
Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017	

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### **Product Identifier**

Product name	Kleanium™ Contact Kleen – Electrical Contact Cleaner (Aerosol)
Chemical Name	Not Applicable
Proper shipping name	AEROSOLS
Chemical formula	Not Applicable
Other means of identification	Not Available

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Application is by spray atomisation from a hand held aerosol pack
	Use according to manufacturer's directions.

#### Details of the manufacturer or supplier of the safety data sheet

Registered company name	Chemtools Pty Ltd	Chemtools Pty Ltd
Address	Unit 2, 14 - 16 Lee Holm Road St Marys NSW 2760 Australia	15/62 Factory Road Belfast Christchurch 8051 New Zealand
Telephone	1300 738 250, +61 2 9833 9766	+64 9 940 2745
Fax	+61 2 9623 3670	+61 2 9623 3670
Website	www.chemtools.com.au	www.chemtools.co.nz
Email	sales@chemtools.com.au	sales@chemtools.com.au

# Emergency telephone number

Association / Organisation	Poisons Information Centre	National Poisons Centre
Emergency telephone numbers	13 11 26	0800 764 766
Other emergency telephone numbers	Not Available	Not Available

### **SECTION 2 Hazards identification**

# Classification of the substance or mixture

# HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Aerosols Category 1, Aspiration Hazard Category 1, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2B, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Reproductive Toxicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### Label elements



Signal word Danger

#### Hazard statement(s)

AUH044	Risk of explosion if heated under confinement.
H222+H229	Extremely flammable aerosol. Pressurized container: may burst if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H320	Causes eye irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.

#### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and protective clothing.
P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P264	Wash all exposed external body areas thoroughly after handling.

#### Precautionary statement(s) Response

P301+P310IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.P303Do NOT induce vomiting.P308+P313IF exposed or concerned: Get medical advice/ attention.P305+P351+P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.P301Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.P337+P313If eye irritation persists: Get medical advice/attention.P302+P352IF ON SKIN: Wash with plenty of water.P304+P340IF INHALED: Remove person to fresh air and keep comfortable for breathing.P332+P313If skin irritation occurs: Get medical advice/attention.P362+P364Take off contaminated clothing and wash it before reuse.		
P308+P313IF exposed or concerned: Get medical advice/ attention.P305+P351+P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.P312Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.P337+P313If eye irritation persists: Get medical advice/attention.P391Collect spillage.P302+P352IF ON SKIN: Wash with plenty of water.P304+P340IF INHALED: Remove person to fresh air and keep comfortable for breathing.P332+P313If skin irritation occurs: Get medical advice/attention.	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.
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P312       Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.         P337+P313       If eye irritation persists: Get medical advice/attention.         P391       Collect spillage.         P302+P352       IF ON SKIN: Wash with plenty of water.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P332+P313       If skin irritation occurs: Get medical advice/attention.	P308+P313	IF exposed or concerned: Get medical advice/ attention.
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	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364         Take off contaminated clothing and wash it before reuse.	P332+P313	If skin irritation occurs: Get medical advice/attention.
	P362+P364	Take off contaminated clothing and wash it before reuse.

#### Precautionary statement(s) Storage

P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

# Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

#### NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification <sup>[1]</sup>	Aerosols Category 1, Aspiration Hazard Category 1, Skin Corrosion/Irritation Category 2, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Reproductive Toxicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	2.1.2A, 6.1E (aspiration), 6.3A, 6.8B, 6.9B (narcotic effects), 9.1B

# Label elements

Hazard pictogram(s)	
Signal word	Danger

# Hazard statement(s)

H222+H229	Extremely flammable aerosol. Pressurized container: may burst if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

# Supplementary statement(s)

Not Applicable

# Precautionary statement(s) Prevention

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
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P261	Avoid breathing mist/vapours/spray.
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#### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

#### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
92112-69-1	>60	hexanes, mixture of isomers
73513-42-5	<30	isohexanes
124-38-9	<5	carbon dioxide
Legend: 1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

# **SECTION 4 First aid measures**

#### Description of first aid measures

Eye Contact	<ul> <li>If aerosols come in contact with the eyes:</li> <li>Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>	
Skin Contact	<ul> <li>If solids or aerosol mists are deposited upon the skin:</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Remove any adhering solids with industrial skin cleansing cream.</li> <li>DO NOT use solvents.</li> <li>Seek medical attention in the event of irritation.</li> </ul>	
Inhalation	<ul> <li>If aerosols, fumes or combustion products are inhaled:</li> <li>Remove to fresh air.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>	
Ingestion	<ul> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>Not considered a normal route of entry.</li> </ul>	

#### Indication of any immediate medical attention and special treatment needed

#### Treat symptomatically.

Following acute or short term repeated exposures to n-hexane:

Large quantities of n-hexane are expired by the lungs after vapour exposure (50-60%). Humans exposed to 100 ppm demonstrate an n-hexane biological half life of 2 hours.

Initial attention should be directed towards evaluation and support of respiration. Cardiac dysrhythmias are a potential complication.

#### INGESTION:

- Ipecac syrup should be considered for ingestion of pure hexane exceeding 2-3ml/kg. Extreme caution must be taken to avoid aspiration since small amounts of n-hexane intratracheally, produce a severe chemical pneumonitis.
- [Ellenhorn and Barceloux: Medical Toxicology]

**BIOLOGICAL EXPOSURE INDEX - BEI** 

BEIs represent the levels of determinants which are most likely to be observed in specimens collected in a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the Exposure Standard (ES or TLV).

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· · · · · ·	5 mg/gm creatinine etabolite observed following exposure to other materials. ht; Interpretation may be ambiguous - should be used as a scree	End of shift	NS SQ
SECTION 5 Firefighting me Extinguishing media	asures		

#### SMALL FIRE: • Water spray, dry chemical or CO2 LARGE FIRE:

Water spray or fog.

# Special hazards arising from the substrate or mixture

ire Incompatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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# Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are highly flammable.</li> <li>Severe fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Severe explosion hazard, in the form of vapour, when exposed to flame or spark.</li> <li>Vapour may travel a considerable distance to source of ignition.</li> <li>Heating may cause expansion or decomposition with violent container rupture.</li> <li>Aerosol cans may explode on exposure to naked flames.</li> <li>Rupturing containers may rocket and scatter burning materials.</li> <li>Hazards may not be restricted to pressure effects.</li> <li>May emit acrid, poisonous or corrosive fumes.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit clouds of acrid smoke</li> </ul>

# **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> <li>Wipe up.</li> <li>If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.</li> <li>Undamaged cans should be gathered and stowed safely.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses</li> </ul>

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	No smoking, naked lights or ignition sources.	
	<ul> <li>Increase ventilation.</li> </ul>	
	Stop leak if safe to do so.	
	Water spray or fog may be used to disperse / absorb vapour.	
	Absorb or cover spill with sand, earth, inert materials or vermiculite.	
	If safe, damaged cans should be placed in a container outdoors, away from ignition sources, u	intil pressure has dissipated.
	Undamaged cans should be gathered and stowed safely.	
	Collect residues and seal in labelled drums for disposal.	

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

# Precautions for safe handling

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>Avoid smoking, naked lights or ignition sources.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>DO NOT spray directly on humans, exposed food or food utensils.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
Other information	<ul> <li>Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li> <li>Store in original containers in approved flammable liquid storage area.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>Keep containers securely sealed. Contents under pressure.</li> <li>Store away from incompatible materials.</li> <li>Store in a cool, dry, well ventilated area.</li> <li>Avoid storage at temperatures higher than 40 deg C.</li> <li>Store in an upright position.</li> <li>Protect containers against physical damage.</li> <li>Check regularly for spills and leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

# Conditions for safe storage, including any incompatibilities

S	uitable contair	her	rosol dispense eck that contai	r. iners are clear	ly labelled.	
Storag	e incompatibi	ity rea	ction produce	-	chemical read	unt of kinetic energy over and above that potentially available from the energy of ction with other substances
~	~	~		~	~	<b>^</b>



X — Must not be stored together

0 — May be stored together with specific preventions

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

#### **SECTION 8 Exposure controls / personal protection**

Part Number:

Kleanium<sup>™</sup> Contact Kleen – Electrical Contact Cleaner (Aerosol)

Version No: 2.1

# Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	isohexanes	Hexane, other isomers	500 ppm / 1760 mg/m3	3500 mg/m3 / 1000 ppm	Not Available	Not Available
Australia Exposure	carbon	Carbon dioxide	5000 ppm / 9000	54000 mg/m3 / 30000	Not	Not
Standards	dioxide		mg/m3	ppm	Available	Available
Australia Exposure	carbon	Carbon dioxide in coal mines	12500 ppm / 22500	54000 mg/m3 / 30000	Not	Not
Standards	dioxide		mg/m3	ppm	Available	Available
New Zealand Workplace	carbon	Carbon dioxide	5000 ppm / 9000	54000 mg/m3 / 30000	Not	Not
Exposure Standards (WES)	dioxide		mg/m3	ppm	Available	Available

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
Kleanium™ Contact Kleen – Electrical Contact Cleaner (Aerosol)	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
hexanes, mixture of isomers	Not Available		Not Available	
isohexanes	Not Available		Not Available	
carbon dioxide	40,000 ppm		Not Available	

# Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
hexanes, mixture of isomers	E	≤ 0.1 ppm
Notes:	Occupational exposure banding is a process of assigning chemica potency and the adverse health outcomes associated with exposu band (OEB), which corresponds to a range of exposure concentra	ire. The output of this process is an occupational exposure

# Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to					
	provide this high level of protection.					
	The basic types of engineering controls are:					
	Process controls which involve changing the way a job activity or process is done to reduce the risk.					
	Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if					
	designed properly. The design of a ventilation system must r		hemical or contaminant in use.			
	Employers may need to use multiple types of controls to prevent employee overexposure.					
	General exhaust is adequate under normal conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is					
	essential to obtain adequate protection.		·			
	Provide adequate ventilation in warehouse or closed storage areas.					
	Air contaminants generated in the workplace possess varyin		rmine the "capture			
	velocities" of fresh circulating air required to effectively remove the contaminant.					
Appropriate engineering	Type of Contaminant:	Speed:				
controls	aerosols, (released at low velocity into zone of active gene	0.5-1 m/s				
	direct spray, spray painting in shallow booths, gas discharg	1-2.5 m/s (200-500				
	air motion)	f/min.)				
	Within each range the appropriate value depends on:					
	Lower end of the range	Upper end of the range				
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents				
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity				
	3: Intermittent, low production.	3: High production, heavy use				
	4: Large hood or large air mass in motion	4: Small hood-local control only				
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity					
	generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the					
	extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the					
	extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2					

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#### Kleanium<sup>™</sup> Contact Kleen – Electrical Contact Cleaner (Aerosol)

	meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.
Individual protection measures, such as personal protective equipment	
Eye and face protection	No special equipment for minor exposure i.e. when handling small quantities. <b>OTHERWISE:</b> For potentially moderate or heavy exposures: • Safety glasses with side shields. • <b>NOTE:</b> Contact lenses pose a special hazard; soft lenses may absorb irritants and <b>ALL</b> lenses concentrate them.
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>No special equipment needed when handling small quantities.</li> <li>OTHERWISE:</li> <li>For potentially moderate exposures:</li> <li>Wear general protective gloves, eg. light weight rubber gloves.</li> <li>For potentially heavy exposures:</li> <li>Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. <b>OTHERWISE:</b> • Overalls. • Skin cleansing cream. • Eyewash unit. • Do not spray on hot surfaces.

# **Respiratory protection**

Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	Air-line*	AX-2	AX-PAPR-2 ^
up to 20 x ES	-	AX-3	-
20+ x ES	-	Air-line**	-

\* - Continuous-flow; \*\* - Continuous-flow or positive pressure demand

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

#### **SECTION 9** Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance Liquid aerosol with a characteristic odour; does not mix with water.

Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Characteristic	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable

Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

# Information on toxicological effects

	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.		
Inhaled	such irritation can cause further lung damage.		
Ingestion	Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments Accidental ingestion of the material may be damaging to the health of the individual.		
Skin Contact	Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be expo The liquid may be able to be mixed with fats or oils and non-allergic contact dermatitis. The material is unlikely	s condition of the individual; systemic effects may result following absorption. sed to this material may degrease the skin, producing a skin reaction described as to produce an irritant dermatitis as described in EC Directives. abrasions or lesions, may produce systemic injury with harmful effects.	
Eye		atility of the gas. the material may cause eye irritation in a substantial number of ation characterised by a temporary redness of the conjunctiva (similar to	
Chronic	occupational exposure. There is some evidence from animal testing that expos Main route of exposure to the gas in the workplace is b gamma-diketones are generally toxic to the nervous sy	r and may cause some concern following repeated or long-term ure to this material may result in toxic effects to the unborn baby.	
Kleanium™ Contact Kleen – Electrical Contact	ΤΟΧΙCΙΤΥ	IRRITATION	

Chemwatch: **5606-90** Part Number:

# Kleanium™ Contact Kleen – Electrical Contact Cleaner (Aerosol)

Cleaner (Aerosol) Not Available		Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
hexanes, mixture of	Dermal (rabbit) LD50: >3301.5 mg/kg <sup>[1]</sup>	Eye(rabbit): 10 mg - mild	
isomers	Inhalation(Rat) LC50: 73860 ppm4h <sup>[1]</sup>		
	Oral (Rat) LD50: >16507.5 mg/kg <sup>[1]</sup>		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	dermal (rat) LD50: >2800-3100 mg/kg <sup>[1]</sup>	Not Available	
isohexanes	Inhalation(Rat) LC50: >25.2 mg/l4h <sup>[1]</sup>		
	Oral (Rat) LD50: >8000 mg/kg <sup>[1]</sup>		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
carbon dioxide	Not Available	Not Available	
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances</li> </ol>		

HEXANES, MIXTURE OF COMERS & ISOHEXANES	No significant acute toxicological data identified in literature search.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	✓
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	✓

Data available to make classification

# **SECTION 12 Ecological information**

Kleanium™ Contact Kleen	Endpoint	Test Duration (hr)	Species	Value	Source
- Electrical Contact Cleaner (Aerosol)	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
hexanes, mixture of isomers	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
isohexanes	Not Available	Not Available	Not Available	Not Available	Not Available
aank oo diawida	Endpoint	Test Duration (hr)	Species	Value	Source
carbon dioxide	LC50	96h	Fish	35mg/l	1
Legend:			pe ECHA Registered Substances - Ecoto Data 5. ECETOC Aquatic Hazard Assess	•	

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites. **DO NOT** discharge into sewer or waterways.

Version No: 2.1

#### Kleanium™ Contact Kleen – Electrical Contact Cleaner (Aerosol)

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
isohexanes	LOW	LOW
carbon dioxide	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
isohexanes	LOW (LogKOW = 3.7056)
carbon dioxide	LOW (LogKOW = 0.83)

### Mobility in soil

Ingredient	Mobility
isohexanes	LOW (KOC = 230.3)
carbon dioxide	HIGH (KOC = 1.498)

# **SECTION 13 Disposal considerations**

Waste treatment methods		
Product / Packaging disposal	<ul> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Discharge contents of damaged aerosol cans at an approved site.</li> <li>Allow small quantities to evaporate.</li> <li>DO NOT incinerate or puncture aerosol cans.</li> <li>Bury residues and emptied aerosol cans at an approved site.</li> </ul>	

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

#### **Disposal Requirements**

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

DO NOT deposit the hazardous substance into or onto a landfill or a sewage facility.

Burning the hazardous substance must happen under controlled conditions with no person or place exposed to

(1) a blast overpressure of more than 9 kPa; or

(2) an unsafe level of heat radiation.

The disposed hazardous substance must not come into contact with class 1 or 5 substances.

#### **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant	
HAZCHEM	Not Applicable

Version No: 2.1

# Kleanium™ Contact Kleen – Electrical Contact Cleaner (Aerosol)

UN number or ID number	1950	1950		
UN proper shipping name	AEROSOLS			
Transport hazard class(es)		2.1 Not Applicable		
Packing group	Not Applicable			
Environmental hazard	Environmentally hazardous			
Special precautions for user	Special provisions63 190 277 327 344 381Limited quantity1000ml			

# Land transport (UN)

UN number or ID number	1950	950		
UN proper shipping name	AEROSOLS	EROSOLS		
Transport hazard class(es)		2.1 Not Applicable		
Packing group	Not Applicable	Not Applicable		
Environmental hazard	Environmentally haza	Environmentally hazardous		
Special precautions for user	Special provisions Limited quantity			

# Air transport (ICAO-IATA / DGR)

UN number	1950			
UN proper shipping name	Aerosols, flammable			
	ICAO/IATA Class	2.1		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	10L		
Packing group	Not Applicable			
Environmental hazard	Environmentally hazardous			
	Special provisions		A145 A167 A802	
	Cargo Only Packing Instructions		203	
	Cargo Only Maximum Qty / Pack		150 kg	
Special precautions for user	Passenger and Cargo Packing Instructions		203	
4301	Passenger and Cargo Maximum Qty / Pack		75 kg	
	Passenger and Cargo	Limited Quantity Packing Instructions	Y203	
	Passenger and Cargo Limited Maximum Qty / Pack		30 kg G	

# Sea transport (IMDG-Code / GGVSee)

UN number	1950			
UN proper shipping name	AEROSOLS	AEROSOLS		
Transport hazard class(es)				
Packing group	Not Applicable			
Environmental hazard	Marine Pollutant			
Special precautions for user	EMS Number Special provisions Limited Quantities	F-D, S-U 63 190 277 327 344 381 959 1000 ml		

#### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
hexanes, mixture of isomers	Not Available
isohexanes	Not Available
carbon dioxide	Not Available

#### Transport in bulk in accordance with the IGC Code

Product name	Ship Type
hexanes, mixture of isomers	Not Available
isohexanes	Not Available
carbon dioxide	Not Available

# **SECTION 15 Regulatory information**

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002515	Aerosols Flammable Group Standard 2020

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

hexanes, mixture of isomers is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	New Zealand Inventory of Chemicals (NZIoC)
isohexanes is found on the following regulatory lists	
New Zealand Inventory of Chemicals (NZIoC)	
carbon dioxide is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	New Zealand Hazardous Substances and New Organisms (HSNO) Act -
FEI Equine Prohibited Substances List - Controlled Medication	Classification of Chemicals - Classification Data
FEI Equine Prohibited Substances List (EPSL)	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Hazardous Substances and New Organisms (HSNO) Act -	New Zealand Workplace Exposure Standards (WES)

#### **Hazardous Substance Location**

**Classification of Chemicals** 

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
2.1.2A	3 000 L (aggregate water capacity)	3 000 L (aggregate water capacity)

# **Certified Handler**

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

#### Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
2.1.2A				1L (aggregate water capacity)

#### **Tracking Requirements**

Not Applicable

### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	No (isohexanes)
Canada - DSL	No (hexanes, mixture of isomers; isohexanes)
Canada - NDSL	No (hexanes, mixture of isomers; isohexanes; carbon dioxide)
China - IECSC	No (hexanes, mixture of isomers)
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	No (hexanes, mixture of isomers; isohexanes)
New Zealand - NZIoC	Yes
Philippines - PICCS	No (hexanes, mixture of isomers)
USA - TSCA	No (hexanes, mixture of isomers; isohexanes)
Taiwan - TCSI	Yes
Mexico - INSQ	No (hexanes, mixture of isomers; isohexanes)
Vietnam - NCI	Yes
Russia - FBEPH	No (hexanes, mixture of isomers; isohexanes)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

# **SECTION 16 Other information**

Revision Date	26/06/2023
Initial Date	26/06/2023

# Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.