

# Chemtools Pty Ltd

Chemwatch: 2742-098

Version No: 2.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Chemwatch Hazard Alert Code: 2

Issue Date: **03/10/2023** Print Date: **05/10/2023** S.GHS.AUS/NZ.EN.E

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

#### **Product Identifier**

Product name	DEOX R47 Silver Grade Anti-Seize
Chemical Name	Not Applicable
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	Grease.
	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. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Hazard pictogram(s)	
Signal word	Warning

# Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.

# Precautionary statement(s) Prevention

P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

#### Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
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

Not Applicable

### Precautionary statement(s) Disposal

Not Applicable

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

#### 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>	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Specific Target Organ Toxicity - Single Exposure 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	6.3A, 6.4A, 6.9B

## Label elements

Hazard pictogram(s)	(!)
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Signal word	Warning

# Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H371	May cause damage to organs.

# Supplementary statement(s)

Not Applicable

# Precautionary statement(s) Prevention

P260	Do not breathe mist/vapours/spray.	
P270	o not eat, drink or smoke when using this product.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P264	Wash all exposed external body areas thoroughly after handling.	

# Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P308+P311	exposed or concerned: Call a POISON CENTER/doctor/physician/first aider.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P302+P352	IF ON SKIN: Wash with plenty of water and soap.			
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.

# 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			
7429-90-5	<30	aluminium powder coated			
7782-42-5	<30	graphite			
1305-62-0	<10	calcium hydroxide			
Not Available	balance	alance Ingredients determined not to be hazardous			
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 this product comes in contact with the eyes:</li> <li>Wash out immediately 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>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> </ul>
	Continued

• Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.

• Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.

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Seek medical advice.
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#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

#### Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

#### Special hazards arising from the substrate or mixture

	Reacts with acids producing flammable / explosive hydrogen (H2) gas
Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

# Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</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	also contain hazardous substances May emit poisonous fumes. May emit corrosive fumes. A fire in bulk finely divided carbon m broom may be useful to produce the Explosion and Ignition Behaviour of Lower Limit for Explosion: Maximum Explosion Pressure: Maximum Rate of Pressure Rise: Minimum Ignition Temperature: Ignition Energy: Glow Temperature: Notes on Test Methods: Tests 1, 2 and 3 were conducted by chemical igniters having an intensity Tests 1 and 2 results are confirmed	ersed in air, firefighters should v from the fire absorbed on the a nay not be obviously visible unle disturbance. Carbon Black with Air 50 g/m3 (carbon black in air) 10 bar 30-100 bar/sec 315 deg. C. >1 kJ 500 deg. C. (approx.) Bergwerkeschaftliche Versuch y of 5000 W.S. by information in the Handboo wald furnace was used. See L mical igniters of variable intens y oven. Active glowing appear	ess the material is disturbed and sparks appear. A straw strecke, Dortmunde-Derne, using a 1 m3 vessel with two k of Powder Technology, Vol. 4 (P. Field) I.S. Bureau of Mines, Report 5624, 1960, p.5, "Lab Equipment ity.		

#### **SECTION 6 Accidental release measures**

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#### DEOX R47 Silver Grade Anti-Seize

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 contact with skin and eyes.</li> <li>Wear impervious gloves and safety goggles.</li> <li>Trowel up/scrape up.</li> <li>Place spilled material in clean, dry, sealed container.</li> <li>Flush spill area with water.</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>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Stop leak if safe to do so.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Neutralise/decontaminate residue (see Section 13 for specific agent).</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

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>Graphite: <ul> <li>is a good conductor of electricity; avoid contact with electrical circuitry.</li> <li>is a highly lubricious material and may present a slip hazard if spilled on pedestrian surfaces.</li> </ul> </li> <li>NOTE: <ul> <li>Wet, activated carbon removes oxygen from the air thus producing a severe hazard to workers inside carbon vessels and in enclosed or confined spaces where activated carbons might accumulate.</li> <li>Before entry to such areas, sampling and test procedures for low oxygen levels should be undertaken; control conditions should be established to ensure the availability of adequate oxygen supply.</li> <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>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</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. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul> </li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

# Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>	
Storage incompatibility	Avoid reaction with oxidising agents	



0

X — Must not be stored together

х

**0** — May be stored together with specific preventions

+ — May be stored together

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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**

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#### **Control parameters**

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	aluminium powder coated	Aluminium (welding fumes) (as Al)	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	aluminium powder coated	Aluminium, pyro powders (as Al)	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	aluminium powder coated	Aluminium (metal dust)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	aluminium powder coated	Aluminium, Welding fumes (as Al)	5 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	aluminium powder coated	Aluminium, Metal dust (as Al)	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	graphite	Graphite (all forms except fibres) (respirable dust) (natural & synthetic)	3 mg/m3	Not Available	Not Available	(e) Containing no asbestos and < 1% crystalline silica.
New Zealand Workplace Exposure Standards (WES)	graphite	Graphite, all forms except graphite fibres respirable dust	3 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	calcium hydroxide	Calcium hydroxide	5 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	calcium hydroxide	Calcium hydroxide	5 mg/m3	Not Available	Not Available	Not Available

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
graphite	6 mg/m3	330 mg/m3		2,000 mg/m3
calcium hydroxide	15 mg/m3	240 mg/m3		1,500 mg/m3
Ingredient	Original IDLH		Revised IDLH	
aluminium powder coated	Not Available		Not Available	
graphite	1,250 mg/m3		Not Available	
calcium hydroxide	Not Available		Not Available	

#### **Exposure controls**

Appropriate engineering	Exhaust ventilation should be designed to prevent accumulation and recirculation in the workplace and safely remove carbon
controls	black from the air.
	Note: Wet, activated carbon removes oxygen from the air and thus presents a severe hazard to workers inside carbon vessels
	and enclosed or confined spaces. Before entering such areas sampling and test procedures for low oxygen levels should be
	undertaken and control conditions set up to ensure ample oxygen availability.[Linde]
	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 match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. If risk of overexposure exists, wear approved respirator. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. Provide adequate ventilation in warehouses and enclosed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion)	2.5-10 m/s (500-2000 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 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



- Safety glasses with side shields.
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the

computer-generated selection:

DEOX R47 Silver Grade Anti-Seize

Material	CPI
NATURAL RUBBER	A
NATURAL+NEOPRENE	А

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### **Ansell Glove Selection**

Glove — In order of recommendation
AlphaTec® 15-554
AlphaTec® Solvex® 37-185
AlphaTec® 38-612
AlphaTec® 58-008
AlphaTec® 58-530B
AlphaTec® 58-530W
AlphaTec® 58-735
AlphaTec® 79-700
AlphaTec® Solvex® 37-675
DermaShield™ 73-711

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

#### Information on basic physical and chemical properties

Appearance	Grease with a characteristic odour; does not mix w	ith water.	
Physical state	Non Slump Paste	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 Applicable	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

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
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

Inhaled	There is some evidence to suggest that the material ca such irritation can cause further lung damage. Not normally a hazard due to non-volatile nature of pro-	an cause respiratory irritation in some persons. The body's response to oduct		
Ingestion	Accidental ingestion of the material may be damaging Ingestion may result in nausea, abdominal irritation, pa			
Skin Contact	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Though considered non-harmful, slight irritation may result from contact because of the abrasive nature of the aluminium oxide particles. Thus it may cause itching and skin reaction and inflammation. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.			
Eye	This material can cause eye irritation and damage in some persons.			
	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Animal testing shows long term exposure to aluminium oxides may cause lung disease and cancer, depending on the size of the particle. The smaller the size, the greater the tendencies of causing harm. Exposure to large doses of aluminium has been connected with the degenerative brain disease Alzheimer's Disease. Prolonged or repeated inhalation of dust may cause in lung disease. Graphite workers have reported symptoms of headaches, coughing, depression, low appetite, difficult breathing and black sputum. Workers suffering from this have generally worked in the industry for long periods, (10 years or more), although some cases have been reported after as little as four years. There is insufficient evidence to suggest that exposure to carbon black causes increased susceptibility to cancer or other ill effects. Some lung changes can occur after a prolonged period of exposure as well as increased strain on the right side of the heart.			
Chronic	Prolonged or repeated inhalation of dust may cause in coughing, depression, low appetite, difficult breathing a the industry for long periods, (10 years or more), altho There is insufficient evidence to suggest that exposure effects. Some lung changes can occur after a prolonge	acted with the degenerative brain disease Alzheimer's Disease. I lung disease. Graphite workers have reported symptoms of headaches, and black sputum. Workers suffering from this have generally worked in ugh some cases have been reported after as little as four years. a to carbon black causes increased susceptibility to cancer or other ill		
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Chronic DEOX R47 Silver Grade Anti-Seize	Prolonged or repeated inhalation of dust may cause in coughing, depression, low appetite, difficult breathing a the industry for long periods, (10 years or more), altho There is insufficient evidence to suggest that exposure effects. Some lung changes can occur after a prolonge	acted with the degenerative brain disease Alzheimer's Disease. I lung disease. Graphite workers have reported symptoms of headaches, and black sputum. Workers suffering from this have generally worked in ugh some cases have been reported after as little as four years. a to carbon black causes increased susceptibility to cancer or other ill		
DEOX R47 Silver Grade	Prolonged or repeated inhalation of dust may cause in coughing, depression, low appetite, difficult breathing a the industry for long periods, (10 years or more), altho There is insufficient evidence to suggest that exposure effects. Some lung changes can occur after a prolonge heart.	ected with the degenerative brain disease Alzheimer's Disease. I lung disease. Graphite workers have reported symptoms of headaches, and black sputum. Workers suffering from this have generally worked in ugh some cases have been reported after as little as four years. to carbon black causes increased susceptibility to cancer or other ill ed period of exposure as well as increased strain on the right side of the IRRITATION		
DEOX R47 Silver Grade	Prolonged or repeated inhalation of dust may cause in coughing, depression, low appetite, difficult breathing a the industry for long periods, (10 years or more), although the industry for long periods, (10 years), and (10 yea	ected with the degenerative brain disease Alzheimer's Disease.         lung disease. Graphite workers have reported symptoms of headaches, and black sputum. Workers suffering from this have generally worked in ugh some cases have been reported after as little as four years.         e to carbon black causes increased susceptibility to cancer or other ill ed period of exposure as well as increased strain on the right side of the         IRRITATION         Not Available		
DEOX R47 Silver Grade Anti-Seize	Prolonged or repeated inhalation of dust may cause in coughing, depression, low appetite, difficult breathing a the industry for long periods, (10 years or more), altho There is insufficient evidence to suggest that exposure effects. Some lung changes can occur after a prolonge heart.           TOXICITY           Not Available	ected with the degenerative brain disease Alzheimer's Disease.         a lung disease. Graphite workers have reported symptoms of headaches, and black sputum. Workers suffering from this have generally worked in ugh some cases have been reported after as little as four years.         a to carbon black causes increased susceptibility to cancer or other ill ed period of exposure as well as increased strain on the right side of the         IRRITATION         Not Available         IRRITATION		
DEOX R47 Silver Grade Anti-Seize	Prolonged or repeated inhalation of dust may cause in coughing, depression, low appetite, difficult breathing a the industry for long periods, (10 years or more), altho There is insufficient evidence to suggest that exposure effects. Some lung changes can occur after a prolonge heart.           TOXICITY           Not Available           TOXICITY           Inhalation(Rat) LC50: >2.3 mg/l4h <sup>[1]</sup>	ected with the degenerative brain disease Alzheimer's Disease.         a lung disease. Graphite workers have reported symptoms of headaches, and black sputum. Workers suffering from this have generally worked in ugh some cases have been reported after as little as four years.         a to carbon black causes increased susceptibility to cancer or other ill ed period of exposure as well as increased strain on the right side of the         IRRITATION         Not Available         IRRITATION         Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
DEOX R47 Silver Grade Anti-Seize	Prolonged or repeated inhalation of dust may cause in coughing, depression, low appetite, difficult breathing a the industry for long periods, (10 years or more), altho There is insufficient evidence to suggest that exposure effects. Some lung changes can occur after a prolonge heart. <b>TOXICITY</b> Not Available <b>TOXICITY</b> Inhalation(Rat) LC50: >2.3 mg/l4h <sup>[1]</sup> Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>	ected with the degenerative brain disease Alzheimer's Disease.         a lung disease. Graphite workers have reported symptoms of headaches, and black sputum. Workers suffering from this have generally worked in ugh some cases have been reported after as little as four years.         a to carbon black causes increased susceptibility to cancer or other ill ed period of exposure as well as increased strain on the right side of the         IRRITATION         Not Available         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
DEOX R47 Silver Grade Anti-Seize aluminium powder coated	Prolonged or repeated inhalation of dust may cause in coughing, depression, low appetite, difficult breathing is the industry for long periods, (10 years or more), althor There is insufficient evidence to suggest that exposure effects. Some lung changes can occur after a prolonge heart. TOXICITY Not Available TOXICITY Inhalation(Rat) LC50: >2.3 mg/l4h <sup>[1]</sup> Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>	Percent with the degenerative brain disease Alzheimer's Disease.         a lung disease. Graphite workers have reported symptoms of headaches, and black sputum. Workers suffering from this have generally worked in ugh some cases have been reported after as little as four years.         a to carbon black causes increased susceptibility to cancer or other ill ed period of exposure as well as increased strain on the right side of the         IRRITATION         Not Available         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION		
DEOX R47 Silver Grade Anti-Seize aluminium powder coated	Prolonged or repeated inhalation of dust may cause in coughing, depression, low appetite, difficult breathing at the industry for long periods, (10 years or more), althout the industry for long periods, (10 years, or more), althout the industry for long periods, (10 years, or more), althout the industry for long periods, (10 years, or more), althout the industry for long periods, (10 years, or more), althout the industry for long periods, (10 years, or more), althout the industry for long periods, (11 years, or more), althout the industry for long periods, (12 years, or more), althout the industry for long periods, (12 years, or more), althout the industry for long periods, (12 years, or more), althout the industry for long periods, (12 years, or more), althout the industry for long periods, (12 years, or more), althout the	Percent with the degenerative brain disease Alzheimer's Disease.         a lung disease. Graphite workers have reported symptoms of headaches, and black sputum. Workers suffering from this have generally worked in ugh some cases have been reported after as little as four years.         a to carbon black causes increased susceptibility to cancer or other ill ed period of exposure as well as increased strain on the right side of the         IRRITATION         Not Available         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION		
DEOX R47 Silver Grade Anti-Seize aluminium powder coated graphite	Prolonged or repeated inhalation of dust may cause in coughing, depression, low appetite, difficult breathing is the industry for long periods, (10 years or more), althous the industry for long periods, (10 years or more), althous the industry for long periods, (10 years or more), althous the industry for long periods, (10 years or more), althous the industry for long periods, (10 years or more), althous the industry for long periods, (10 years or more), althous the industry for long periods, (10 years or more), althous the industry for long periods, (10 years or more), althous the industry for long periods, (10 years or more), althous the industry for long periods, (10 years or more), althous the industry for long periods, (10 years or more), althous the industry for long periods, (10 years or more), althous the industry for long periods, (10 years or more), althout the industry for long periods, (10 years or more), althout the industry for long periods, (10 years or more), althout the industry for long periods, (10 years or more), althout the industry for long periods, (10 years or more), althout the industry for long periods, (10 years or more), althout the industry for long periods, (10 years or more), althout the industry for long periods, (10 years or more), althout the industry for long periods, (10 years or more), althout the industry for long periods, (11 years), and (12 years), and (13 years), and (14 year	Decked with the degenerative brain disease Alzheimer's Disease.         a lung disease. Graphite workers have reported symptoms of headaches, and black sputum. Workers suffering from this have generally worked in ugh some cases have been reported after as little as four years.         a to carbon black causes increased susceptibility to cancer or other illed period of exposure as well as increased strain on the right side of the         IRRITATION         Not Available         IRRITATION         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION         Not Available		

Chemwatch: 2742-098 Part Number:

Number: ion No: <b>2.1</b>	DEOX R47 Silver G	Print Date: 05/10	
	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>	Skin: adverse	effect observed (irritating) <sup>[1]</sup>
Legend:	1. Value obtained from Europe ECHA Registered Unless otherwise specified data extracted from F		
CALCIUM HYDROXIDE	The material may produce severe irritation to the irritants may produce conjunctivitis.	eye causing pronounced inflam	nation. Repeated or prolonged exposure to
ALUMINIUM POWDER COATED & GRAPHITE	No significant acute toxicological data identified ir	literature search.	
GRAPHITE & CALCIUM HYDROXIDE	Asthma-like symptoms may continue for months of allergic condition known as reactive airways dysfu highly irritating compound. Main criteria for diagno individual, with sudden onset of persistent asthma irritant. Other criteria for diagnosis of RADS include bronchial hyperreactivity on methacholine challen eosinophilia. RADS (or asthma) following an irrita and duration of exposure to the irritating substance of exposure due to high concentrations of irritating ceases. The disorder is characterized by difficulty	unction syndrome (RADS) which basing RADS include the absence a-like symptoms within minutes t de a reversible airflow pattern or ige testing, and the lack of minin ting inhalation is an infrequent d ce. On the other hand, industrial g substance (often particles) and	can occur after exposure to high levels of e of previous airways disease in a non-atopic o hours of a documented exposure to the lung function tests, moderate to severe nal lymphocytic inflammation, without isorder with rates related to the concentration bronchitis is a disorder that occurs as a result d is completely reversible after exposure
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

X – Data either not available or does not fill the criteria for classification Data available to make classification

# **SECTION 12 Ecological information**

Toxicity

DEOX R47 Silver Grade Anti-Seize	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	0.017mg/L	2
	EC50	48h	Crustacea	0.736mg/L	2
luminium powder coated	EC50	96h	Algae or other aquatic plants	0.005mg/L	2
	LC50	96h	Fish	0.078- 0.108mg/l	2
	NOEC(ECx)	48h	Crustacea	>100mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>100mg/l	2
graphite	EC50	48h	Crustacea	>100mg/l	2
	NOEC(ECx)	48h	Crustacea	>=100mg/l	2
	LC50	96h	Fish	>100mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>14mg/l	2
calcium hydroxide	EC50	48h	Crustacea	49.1mg/l	2
	LC50	96h	Fish	33.8844mg/l	4
	NOEC(ECx)	72h	Algae or other aquatic plants	14mg/l	2

al Information - Aqu ed from 1. IUCLID To city Data 2. Europe ECHA Registered Substances - Ecot Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

#### DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients	No Data available for all ingredients	

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
	No Data available for all ingredients
Mobility in soil	
Ingredient	Mobility
	No Data available for all ingredients

#### **SECTION 13 Disposal considerations**

Waste treatment methods		
	Recycle wherever possible or consult manufacturer for recycling options.	
Product / Packaging	Consult State Land Waste Authority for disposal.	
disposal	<ul> <li>Bury or incinerate residue at an approved site.</li> </ul>	
	Recycle containers if possible, or dispose of in an authorised landfill.	

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.

Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

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

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

#### Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

## Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

Not Applicable

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

Product name	Group
aluminium powder coated	Not Available
graphite	Not Available

Product name	Group
calcium hydroxide	Not Available

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

Product name	Ship Type
aluminium powder coated	Not Available
graphite	Not Available
calcium hydroxide	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

HSR002521Animal Nutritional and Animal Care Products Group Standard 2020HSR002530Cleaning Products Subsidiary Hazard Group Standard 2020HSR002503Gases under Pressure Mixtures Subsidiary Hazard Group Standard 2020HSR00260Lubricants Lubricant Additives Coolants and Anii freeza Agents Subsidiary Hazard Group Standard 2020HSR002612Metal Industry Products Subsidiary Hazard Group Standard 2020HSR002624N.O.S. Subsidiary Hazard Group Standard 2020HSR002638Photographic Chemicals Subsidiary Hazard Group Standard 2020HSR00264Regern Kits Group Standard 2020HSR00264Regern Kits Group Standard 2020HSR002653Solvents Subsidiary Hazard Group Standard 2020HSR002670Regern Kits Group Standard 2020HSR002671Sudrace Coalings and Colourants Subsidiary Hazard Group Standard 2020HSR002673Solvents Subsidiary Hazard Group Standard 2020HSR002674Paramaceutical Active Ingredients Group Standard 2020HSR002675Sudrace Coalings and Colourants Subsidiary Hazard Group Standard 2020HSR002676Paramaceutical Active Ingredients Group Standard 2020HSR002684Construction Products Subsidiary Hazard Group Standard 2020HSR002544Construction Products Subsidiary Hazard Group Standard 2020HSR00254Dental Products Subsidiary Hazard Group Standard 2020HSR00254Construction Products Subsidiary Hazard Group Standard 2020HSR00255Dental Products Subsidiary Hazard Group Standard 2020HSR002571Ferlinger Subsidiary Hazard Group Standard 2020HSR002573Fine Jadditives a	HSR Number	Group Standard		
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HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020	HSR100757	Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020		
	HSR100758	Veterinary Medicines Non dispersive Closed System Application Group Standard 2020		
HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR100759	Veterinary Medicines Non dispersive Open System Application Group Standard 2020		
	HSR100592	Agricultural Compounds Special Circumstances Group Standard 2020		
HSR100756 Active Ingredients for Use in the Manufacture of Agricultural Compounds Group Standard 2020	HSR100756	Active Ingredients for Use in the Manufacture of Agricultural Compounds Group Standard 2020		

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

aluminium powder coated is found on the following regulatory lists

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Version No: 2.1				
	m			
Australia Hazardous Chemical Informat Chemicals	on System (HCIS) - Hazardous	New Zealand Hazardous Su Classification of Chemicals	ubstances and New Organis	ms (HSNO) Act -
Australian Inventory of Industrial Chemi	cals (AIIC)	New Zealand Hazardous Su	ubstances and New Organis	ms (HSNO) Act -
International WHO List of Proposed Oct	cupational Exposure Limit (OEL)	Classification of Chemicals	- Classification Data	
Values for Manufactured Nanomaterials	(MNMS)	New Zealand Inventory of C	Chemicals (NZIoC)	
New Zealand Approved Hazardous Sub	stances with controls	New Zealand Workplace Ex	posure Standards (WES)	
graphite is found on the following re-	gulatory lists			
Australian Inventory of Industrial Chemi	cals (AIIC)	New Zealand Inventory of Chemicals (NZIoC)		
International WHO List of Proposed Oc	cupational Exposure Limit (OEL)	New Zealand Workplace Exposure Standards (WES)		
Values for Manufactured Nanomaterials	(MNMS)			
calcium hydroxide is found on the fo	llowing regulatory lists			
Australia Hazardous Chemical Informat	on System (HCIS) - Hazardous	New Zealand Hazardous Substances and New Organisms (HSNO) Act -		
Chemicals		Classification of Chemicals - Classification Data		
Australian Inventory of Industrial Chemicals (AIIC)		New Zealand Inventory of Chemicals (NZIoC)		
International WHO List of Proposed Oce	cupational Exposure Limit (OEL)	New Zealand Workplace Ex	cposure Standards (WES)	
Values for Manufactured Nanomaterials	(MNMS)			
New Zealand Hazardous Substances a	nd New Organisms (HSNO) Act -			
Classification of Chemicals				

#### **Hazardous Substance Location**

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

Hazard Class	Quantities
Not Applicable	Not Applicable

# **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
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

# **Tracking Requirements**

Not Applicable

# **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (aluminium powder coated; graphite; calcium hydroxide)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (aluminium powder coated; graphite)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes

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#### DEOX R47 Silver Grade Anti-Seize

National Inventory	Status
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
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	03/10/2023
Initial Date	03/10/2023

#### 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.