

Viper WRL Pty Ltd

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Viper WRL Penetrating Grease - VPG - 0 Viper WRL Pty Ltd

Chemwatch: **46-7713** Version No: **4.1.1.1**

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 1

Issue Date: **01/11/2019** Print Date: **17/09/2020** S.GHS.AUS.EN

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

Product Identifier	
Product name	Viper WRL Penetrating Grease - VPG - 0
Synonyms	Not Available
Other means of identification	Not Available
Relevant identified uses of the	substance or mixture and uses advised against
Relevant identified uses	Lubricant. Use according to manufacturer's directions.
Details of the supplier of the sa	afety data sheet
Registered company name	Viper WRL Pty Ltd
Address	c/o Unit 2, 14 Stoddart Road Prospect NSW 2148 Australia
Telephone	+61 (0)2 9636 5655
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Website	Not Available
Email	sales@viperwrl.com
Emergency telephone number	
Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

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

ChemWatch H	azard Ratings		
	Min	Max	
Flammability	1		
Toxicity	0	i	0
Body Contact	1	1	
Reactivity	1		= Mo
Chronic	0		= High = Extren
P	oisons Schedule	Not Applical	ıble
	Classification [1]	Not Applical	ıble
Label element	s		
Haz	ard pictogram(s)	Not Applical	ıble
	Signal word	Not Applica	able

Hazard statement(s)

Not Applicable

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available	>90	mineral oil
Not Available		containing
64742-58-1.	NotSpec	spent petroleum lubricating oils, hydrotreated (severe)
64742-52-5.	NotSpec	naphthenic distillate, heavy, hydrotreated (severe)
64742-53-6.	NotSpec	naphthenic distillate, light, hydrotreated (severe)
1327-43-1	<1	magnesium aluminosilicate
12001-26-2	<1	mica
13463-67-7	<0.1	titanium dioxide
1309-37-1	<0.1	red iron oxide

SECTION 4 First aid measures

Description of first aid measures

Docompaion of mot ala moacal	· ·
Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If failure/misuse of high pressure/hydraulic equipment results in injection of grease/oil through the skin seek urgent medical attention. Treat as surgical emergency.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. 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. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

- Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.
- High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

NOTE: Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

SECTION 5 Firefighting measures

Extinguishing media

- ► Foam.
- Dry chemical powder.
- ► BCF (where regulations permit).
- Carbon dioxide.

Do not use water jets.

Special hazards arising from the substrate or mixture

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

Alert Fire Brigade and tell them location and nature of hazard.

Chemwatch: 46-7713 Page 3 of 10 Version No: 4.1.1.1

Viper WRL Penetrating Grease - VPG - 0

Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses. ▶ Use water delivered as a fine spray to control fire and cool adjacent area. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. ▶ On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: Fire/Explosion Hazard carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes. CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns. Foaming may cause overflow of containers and may result in possible fire. HAZCHEM

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Not Applicable

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	Slippery when spilt. Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety goggles. Trowel up/scrape up.				
Major Spills	Slippery when spilt. Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment as required.				

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area.

Conditions for safe storage, including any incompatibilities

orditions for sale storage, including any incompatibilities						
Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. 					
Storage incompatibility	CARE: Water in contact with heated material may cause foaming or a steam explosion with possible severe burns from wide scattering of hot material. Resultant overflow of containers may result in fire. Avoid reaction with oxidising agents					



- Must not be stored together
- May be stored together with specific preventions
- May be stored together

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	mineral oil	Oil mist, refined	5	Not	Not	Not Available

Issue Date: 01/11/2019

Print Date: 17/09/2020

Chemwatch: 46-7713

Version No: **4.1.1.1**

Page 4 of 10 Viper WRL Penetrating Grease - VPG - 0

Issue Date: **01/11/2019**Print Date: **17/09/2020**

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
		mineral	mg/m3	Available	Available	
Australia Exposure Standards	spent petroleum lubricating oils, hydrotreated (severe)	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	naphthenic distillate, heavy, hydrotreated (severe)	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	naphthenic distillate, light, hydrotreated (severe)	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	mica	Mica	2.5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	titanium dioxide	Titanium dioxide	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	red iron oxide	Iron oxide fume (Fe2O3) (as Fe)	5 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
mineral oil	Mineral oil, heavy or light; (paraffin oil; Deobase, deodorized; heavy paraffinic; heavy naphthenic); distillates; includes 64741-53-3, 64741-88-4, 8042-47-5, 8012-95-1; 64742-54-7		1,500 mg/m3	8,900 mg/m3
spent petroleum lubricating oils, hydrotreated (severe)	Mineral oil, heavy or light; (paraffin oil; Deobase, deodorized; heavy paraffinic; heavy naphthenic); distillates; includes 64741-53-3, 64741-88-4, 8042-47-5, 8012-95-1; 64742-54-7		1,500 mg/m3	8,900 mg/m3
naphthenic distillate, heavy, hydrotreated (severe)	Distillates (petroleum) hydrotreated heavy naphthenic		1,500 mg/m3	8,900 mg/m3
naphthenic distillate, light, hydrotreated (severe)	Petroleum distillates; petroleum ether; includes clay-treated light naphthenic [64742-45-6]; low boiling [68477-31-6]; petroleum extracts [64742-06-9]; petroleum base oil [64742-46-7]; petroleum 50 thinner, petroleum spirits [64475-85-0], Soltrol, VM&P naphtha [8032-32-4]; Ligroine, and paint solvent; petroleum paraffins C5-C20 [64771-72-8]; hydrotreated light naphthenic [64742-53-6]; solvent refined light naphthenic [64741-97-5]; and machine coolant 1		1,800 mg/m3	40,000 mg/m3
mica	Mica; (mica silicates)	9 mg/m3	99 mg/m3	590 mg/m3
titanium dioxide	Titanium oxide; (Titanium dioxide)		330 mg/m3	2,000 mg/m3
red iron oxide	Iron oxide; (Ferric oxide)	15 mg/m3	360 mg/m3	2,200 mg/m3

Ingredient	Original IDLH	Revised IDLH
mineral oil	2,500 mg/m3	Not Available
spent petroleum lubricating oils, hydrotreated (severe)	2,500 mg/m3	Not Available
naphthenic distillate, heavy, hydrotreated (severe)	2,500 mg/m3	Not Available
naphthenic distillate, light, hydrotreated (severe)	2,500 mg/m3	Not Available
magnesium aluminosilicate	Not Available	Not Available
mica	1,500 mg/m3	Not Available
titanium dioxide	5,000 mg/m3	Not Available
red iron oxide	2,500 mg/m3	Not Available

Exposure controls

Appropriate engineering 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.

Personal protection









Eye and face protection

- Safety glasses with side shields.
- Chemical goggles.
- 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.

Skin protection

See Hand protection below

Hands/feet protection

- ► Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

Body protection

See Other protection below

Other protection

- Overalls
- P.V.C apron.
- Barrier cream.
- Skin cleansing cream

Respiratory protection

Type A-P 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	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - 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)

- ▶ 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

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Red brown paste with hydrocarbon-like odour; does not mix with water.		
Physical state	Non Slump Paste	Relative density (Water = 1)	0.95
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	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)	203	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	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	Immiscible	pH as a solution (1%)	6-8 (emulsion)
Vapour density (Air = 1)	<1	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. 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

Inhaled

Information on toxicological effects

There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

Inhalation hazard is increased at higher temperatures.

Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs.

Viper WRL Penetrating Grease - VPG - 0

Issue Date: **01/11/2019**Print Date: **17/09/2020**

Ingestion	Although ingestion is not thought to produce harmful effects (a of the individual, following ingestion, especially where pre-exis	as classified under EC Directives), the material may still be damaging to the health ting organ (e.g. liver, kidney) damage is evident.	
Skin Contact	There is some evidence to suggest that this material can caus Open cuts, abraded or irritated skin should not be exposed to The material may accentuate any pre-existing dermatitis cond Entry into the blood-stream, through, for example, cuts, abras prior to the use of the material and ensure that any external definitions.	this material ition ons or lesions, may produce systemic injury with harmful effects. Examine the skin	
Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons.		
Chronic	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts on the soles of the feet.		
	TOXICITY	IRRITATION	
Viper WRL Penetrating Grease - VPG - 0	Dermal (None) LD50: 5979 mg/kg* ^[2] Oral (None) LD50: 52092 mg/kg* ^[2]	Not Available	
	Oral (None) ED30. 32092 Highly 1.		
mineral oil	TOXICITY	IRRITATION	
	Not Available	Not Available	
	TOXICITY	IRRITATION	
spent petroleum lubricating oils, hydrotreated (severe)	Oral (rat) LD50: >2000 mg/kg ^[2]	Not Available	
, ,	Oral (rat) LD50: >22400 mg/kg ^[2]		
	TOXICITY	IRRITATION	
naphthenic distillate, heavy,	Oral (rat) LD50: >5000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
hydrotreated (severe)		Skin: no adverse effect observed (not irritating) ^[1]	
	TOXICITY	IRRITATION	
naphthenic distillate, light,	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
hydrotreated (severe)	Inhalation (rat) LC50: 2.18 mg/l/4H ^[2]	Skin: no adverse effect observed (not irritating) ^[1]	
	Oral (rat) LD50: >5000 mg/kg ^[2]		
	TOXICITY	IRRITATION	
magnesium aluminosilicate	Oral (rat) LD50: >16000 mg/kg ^[2]	Not Available	
·	Oral (rat) LD50: >2000 mg/kg ^[1]		
	TOXICITY	IRRITATION	
mica	Not Available	Not Available	
	TOXICITY	IRRITATION	
	0.0032 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
	0.04 mg/kg ^[2]	Skin (human): 0.3 mg /3D (int)-mild *	
titanium dioxide	60000 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]	
	Oral (mouse) LD50: >10000 mg/kg ^[2]		
	Oral (rat) LD50: >2000 mg/kg ^[1]		
	TOXICITY	IRRITATION	
red iron oxide	Oral (rat) LD50: >5,000 mg/kg ^[2]	Eye (rabbit): non-irritant	
		Skin (rabbit): non-irritant 24h	
Legend:	Value obtained from Europe ECHA Registered Substances specified data extracted from RTECS - Register of Toxic Effect	- Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise	
	specified data extracted from NTECS - Negister of Toxic Effec	u or chemical Substances	
	l '	e related to chemical components and vary as does the composition and source of	
MINERAL OIL	the original crude. A small but definite risk of occupational skin cancer occurs in This risk has been attributed to the presence of certain polycy Petroleum oils which are solvent refined/extracted or severely	. , , , , ,	
SPENT PETROLEUM LUBRICATING OILS, HYDROTREATED (SEVERE)	WARNING: Spent oils generally have higher levels of PAH that component of these, the "benz-alpha-pyrenes" create special	in the parent base oil from which they are derived. PAHs and in particular, a concern as PROBABLE HUMAN CARCINOGENS	
NAPHTHENIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE)	Based on laboratory and animal testing, exposure to the material may result in irreversible effects and mutations in humans. Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins. The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the diet. Some hydrocarbons may appear unchanged as in the lipoprotein particles in the		

Chemwatch: **46-7713** Page **7** of **10**

Version No: 4.1.1.1

Viper WRL Penetrating Grease - VPG - 0

Issue Date: **01/11/2019**Print Date: **17/09/2020**

gut lymph, but most hydrocarbons partly separate from fats and undergo metabolism in the gut cell.

NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA.

* IUCLID

Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation.

Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle. It penetrated only the outermost layer of the skin, suggesting that healthy skin may be an effective barrier. There is no substantive data on genetic damage, though cases have been reported in experimental animals.

The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

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.

WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.

SPENT PETROLEUM LUBRICATING OILS, HYDROTREATED (SEVERE) & NAPHTHENIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE) & MICA & TITANIUM DIOXIDE

TITANIUM DIOXIDE

No significant acute toxicological data identified in literature search.

SPENT PETROLEUM
LUBRICATING OILS,
HYDROTREATED (SEVERE) &
NAPHTHENIC DISTILLATE,
HEAVY, HYDROTREATED
(SEVERE) & NAPHTHENIC
DISTILLATE, LIGHT,
HYDROTREATED (SEVERE)

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives;

The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since:

- The adverse effects of these materials are associated with undesirable components, and

 The levels of the undesirable components are inversely related to the degree of processing.
- The levels of the undesirable components are inversely related to the degree of processing;
- Distillate base oils receiving the same degree or extent of processing will have similar toxicities;
- The potential toxicity of residual base oils is independent of the degree of processing the oil receives.

NAPHTHENIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE) & NAPHTHENIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE) • The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing.

Unrefined & mildly refined distillate base oils contain the highest levels of undesirable components, have the largest variation of hydrocarbon molecules and have shown the highest potential cancer-causing and mutation-causing activities. Highly and severely refined distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined and mildly refined base oils, the highly and severely refined distillate base oils have a smaller range of hydrocarbon molecules and have demonstrated very low mammalian toxicity. Testing of residual oils for mutation-causing and cancer-causing potential has shown negative results, supporting the belief that these materials lack biologically active components or the components are largely non-bioavailable due to their molecular size.

Toxicity testing has consistently shown that lubricating base oils have low acute toxicities.

For highly and severely refined distillate base oils:

In animal studies, the acute, oral, semilethal dose is >5g/kg body weight and the semilethal dose by skin contact is >2g/kg body weight. The semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "non-irritating" to "moderately irritating" when tested for skin and eye irritation. Testing for sensitisation has been negative.

MICA & TITANIUM DIOXIDE

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.

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:

🗶 – Data either not available or does not fill the criteria for classification

Data available to make classification

SECTION 12 Ecological information

Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Viper WRL Penetrating Grease - VPG - 0	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
mineral oil	Not Available	Not Available	Not Available	Not Available	Not Available
spent petroleum lubricating	Endpoint	Test Duration (hr)	Species	Value	Source
oils, hydrotreated (severe)	EC50	48	Crustacea	>22500mg/L	1

	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	>100mg/L	2
naphthenic distillate, heavy, hydrotreated (severe)	EC50	48	Crustacea	>10-mg/L	2
nyuromoutou (severe)	EC50	96	Algae or other aquatic plants	>1000mg/L	1
	NOEC	504	Crustacea	>1mg/L	1
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	>100mg/L	2
naphthenic distillate, light, hydrotreated (severe)	EC50	48	Crustacea	>10-mg/L	2
nyarotroutou (bovere)	EC50	96	Algae or other aquatic plants	>1000mg/L	1
	NOEC	504	Crustacea	>1mg/L	1
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48	Crustacea	>10-mg/L	2
magnesium aluminosilicate	EC50	72	Algae or other aquatic plants	2-500mg/L	2
	NOEC	504	Crustacea	1-mg/L	2
mica	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	>1-mg/L	2
titanium dioxide	EC50	48	Crustacea	>1-mg/L	2
	EC50	72	Algae or other aquatic plants	>10-mg/L	2
	NOEC	504	Crustacea	<0.1mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	0.05mg/L	2
			Crustacea	5.11mg/L	2
red iron oxide	EC50	48	o. doladoa		
red iron oxide	EC50 EC50	72	Algae or other aquatic plants	18mg/L	2
red iron oxide				18mg/L 0.52mg/L	2

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
titanium dioxide	HIGH	HIGH

Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment

Bioaccumulative potential

Ingredient	Bioaccumulation
titanium dioxide	LOW (BCF = 10)

Mobility in soil

Ingredient	Mobility
titanium dioxide	LOW (KOC = 23.74)

SECTION 13 Disposal considerations

Waste treatment methods

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Product / Packaging disposal

 Where in doubt contact the responsible authority.

 Recycle wherever possible or consult manufacture
 - Recycle wherever possible or consult manufacturer for recycling options.
 - ► Consult State Land Waste Authority for disposal.
 - ▶ Bury or incinerate residue at an approved site.
 - ▶ Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 Transport information

Marine Pollutant NO
HAZCHEM Not Applicable

Land transport (ADG): 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

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

Not Applicable

SECTION 15 Regulatory information

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

mineral oil is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

spent petroleum lubricating oils, hydrotreated (severe) is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

naphthenic distillate, heavy, hydrotreated (severe) is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

naphthenic distillate, light, hydrotreated (severe) is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

magnesium aluminosilicate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

mica is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

titanium dioxide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)
Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B : Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

red iron oxide is found on the following regulatory lists

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule $\bf 4$

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

National Inventory Status

National Inventory	Status
Australia - AIIC	Yes
Australia Non-Industrial Use	No (spent petroleum lubricating oils, hydrotreated (severe); naphthenic distillate, heavy, hydrotreated (severe); naphthenic distillate, light, hydrotreated (severe); magnesium aluminosilicate; mica; titanium dioxide; red iron oxide)
Canada - DSL	Yes
Canada - NDSL	No (spent petroleum lubricating oils, hydrotreated (severe); naphthenic distillate, heavy, hydrotreated (severe); naphthenic distillate, light, hydrotreated (severe); magnesium aluminosilicate; mica; red iron oxide)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (spent petroleum lubricating oils, hydrotreated (severe); mica)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	No (mica)
Taiwan - TCSI	Yes
Mexico - INSQ	No (naphthenic distillate, light, hydrotreated (severe))
Vietnam - NCI	Yes
Russia - ARIPS	No (spent petroleum lubricating oils, hydrotreated (severe); magnesium aluminosilicate)

Chemwatch: 46-7713 Page 10 of 10 Issue Date: 01/11/2019 Version No: 4.1.1.1 Print Date: 17/09/2020

Viper WRL Penetrating Grease - VPG - 0

National Inventory	Status
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 Other information

Revision Date	01/11/2019
Initial Date	12/01/2015

SDS Version Summary

Version	Issue Date	Sections Updated
3.1.1.1	19/04/2018	Acute Health (eye), Acute Health (inhaled), Acute Health (skin), Acute Health (swallowed), Appearance, Classification, Engineering Control, Environmental, Exposure Standard, Fire Fighter (extinguishing media), Fire Fighter (fire/explosion hazard), First Aid (eye), First Aid (skin), First Aid (swallowed), Ingredients, Instability Condition, Personal Protection (eye), Physical Properties, Storage (storage requirement), Toxicity and Irritation (Toxicity Figure), Toxicity and Irritation (Other), Use
4.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

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.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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