## Resene Paints LTD Version No: 2.2

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: 12/03/2024 Print Date: 12/03/2024 L.GHS.NZL.EN

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

Product Identifier			
Product name	RESENE ARMOURCOTE 210 BASE		
Synonyms	All colours		
Proper shipping name	PAINT RELATED MATERIAL (including paint thinning or reducing compound) (contains zinc oxide); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) (contains zinc oxide)		
Other means of identification	Not Available		

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

Relevant identified uses	6947, 8443, 8447
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# Details of the manufacturer or supplier of the safety data sheet

Registered company name	Resene Paints LTD		
Address	32-50 Vogel Street, Lower Hutt, Wellington, New Zealand New Zealand		
Telephone	64 4 577 0500		
Fax	+64 4 5773327		
Website	www.resene.co.nz		
Email	advice@resene.co.nz		

# Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	Not Available	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

## **SECTION 2 Hazards identification**

### Classification of the substance or mixture

Classification <sup>[1]</sup>	Flammable Liquids Category 3, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, S Eye Damage/Eye Irritation Category 2, Acute Toxicity (Inhalation) Category 4, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Single Exposure Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardou Aquatic Environment Long-Term Hazard Category 2	
Legend:	1. Classified by Chernwatch; 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	3.1C, 6.1D (inhalation), 6.1D (oral), 6.3A, 6.4A, 6.5B (contact), 6.7B, 6.8B, 6.9B, 9.1B	

Label elements

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Signal word Warning

## Hazard statement(s)

Hazard pi

H226	Flammable liquid and vapour.		
H302	Harmful if swallowed.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		

H351	Suspected of causing cancer.	
H361	Suspected of damaging fertility or the unborn child.	
H371	May cause damage to organs. (Oral, Dermal, Inhalation)	
H373	May cause damage to organs through prolonged or repeated exposure. (Oral, Dermal, Inhalation)	
H411	H411 Toxic to aquatic life with long lasting effects.	

## Precautionary statement(s) Prevention

Obtain special instructions before use.		
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
Keep container tightly closed.		
Do not breathe mist/vapours/spray.		
Use only a well-ventilated area.		
Wear protective gloves, protective clothing, eye protection and face protection.		
Ground and bond container and receiving equipment.		
Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.		
Use non-sparking tools.		
Take action to prevent static discharges.		
Do not eat, drink or smoke when using this product.		
Wash all exposed external body areas thoroughly after handling.		
Avoid release to the environment.		
Contaminated work clothing should not be allowed out of the workplace.		

# Precautionary statement(s) Response

P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.		
P302+P352	IF ON SKIN: Wash with plenty of water and soap.		
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	IF exposed or concerned: Call a POISON CENTER/doctor/physician/first aider.		
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
P391	Collect spillage.		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.		
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P330	Rinse mouth.		

# Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	05 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

Ingredients are required by the Hazard Substances (Safety Data Sheets) Notice 2017, EPA consolidation 30 April 2021 to be identified:

## Mixtures

CAS No	%[weight]	ght] Name	
96-29-7	0.1-0.5	methyl ethyl ketoxime	
1314-13-2	1-5	zinc oxide	
1330-20-7	1-10	xylene	
100-41-4	1-10	0 <u>ethylbenzene</u>	
64742-82-1.	0.1-1 naphtha petroleum, heavy, hydrodesulfurised		
136-52-7	<=0.1	cobalt(II) octoate	
Legend:	<ol> <li>Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI;</li> <li>Classification drawn from C&amp;L * EU IOEL Vs available</li> </ol>		

# **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.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin contact occurs: <ul> <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	If aerosols, fumes or combustion products are inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop seek medical attention.
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> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

### Extinguishing media

Foam.

# Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents		
Advice for firefighters			
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard.		
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are flammable.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>carbon monoxide (CO)</li> <li>metal oxides</li> <li>other pyrolysis products typical of burning organic material.</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	Remove all ignition sources. Contain spill with inert non- combustible absorbent then place in suitable container for disposal. Clean area with large quantity of water to complete clean- up.
Major Spills	Remove all ignition sources. Clear area of personnel and move upwind. Wear appropriate personnel protective equipment and clothing to prevent exposure. Avoid breathing in mists or vapours and skin or eyes contact. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non- combustible material onto spillage. Use clean non- sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authority.

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>Containers, even those that have been emptied, may contain explosive vapours.</li> <li>Electrostatic discharge may be generated during pumping - this may result in fire.</li> </ul>

	<ul> <li>Avoid unnecessary personal contact, including inhalation.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Other information	Store in original containers in approved flammable liquid storage area.

# Conditions for safe storage, including any incompatibilities

Suitable container	Packing as supplied by manufacturer.
Storage incompatibility	► strong oxidisers

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

### **Control parameters**

# Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	zinc oxide	Zinc oxide	2 mg/m3	5 mg/m3	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	zinc oxide	Zinc oxide respirable dust	0.1 mg/m3	0.5 mg/m3	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	xylene	Dimethylbenzene	50 ppm / 217 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	ethylbenzene	Ethyl benzene	20 ppm / 88 mg/m3	176 mg/m3 / 40 ppm	Not Available	(skin) - Skin absorption oto - Ototoxin
New Zealand Workplace Exposure Standards (WES)	naphtha petroleum, heavy, hydrodesulfurised	Stoddard solvent (White spirits)	100 ppm / 525 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	cobalt(II) octoate	Inhalable dust (not otherwise classified)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	cobalt(II) octoate	Respirable dust (not otherwise classified)	3 mg/m3	Not Available	Not Available	Not Available

### Emergency Limits

Ingredient	TEEL-1 TEEL-2			TEEL-3	
methyl ethyl ketoxime	30 ppm	56 ppm		250 ppm	
zinc oxide	10 mg/m3	15 mg/m3		2,500 mg/m3	
xylene	Not Available	Not Available		Not Available	
ethylbenzene	Not Available	Not Available		Not Available	
naphtha petroleum, heavy, hydrodesulfurised	300 mg/m3	1,800 mg/m3		29500** mg/m3	
Ingredient	Original IDLH		Revised IDLH		
methyl ethyl ketoxime	Not Available		Not Available		
zinc oxide	500 mg/m3		Not Available		
xylene	900 ppm		Not Available		
ethylbenzene	800 ppm		Not Available		
naphtha petroleum, heavy, hydrodesulfurised	20,000 mg/m3		Not Available		
cobalt(II) octoate	Not Available		Not Available		

### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
methyl ethyl ketoxime	> 0.1 to ≤ 1 ppm		
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

### MATERIAL DATA

IFRA Prohibited Fragrance Substance

The International Fragrance Association (IFRA) Standards form the basis for the globally accepted and recognized risk management system for the safe use of fragrance ingredients and are part of the IFRA Code of Practice.

CAUTION: This substance is classified by the NOHSC as Category 3 Suspected of having carcinogenic potential for zinc oxide:

Zinc oxide intoxication (intoxication zincale) is characterised by general depression, shivering, headache, thirst, colic and diarrhoea.

For methyl ethyl ketoxime (MEKO)

CEL TWA: 10 ppm, 36 mg/m3 (compare WEEL-TWA)

(CEL = Chemwatch Exposure Limit)

OEL-TWA: 0.28 ppm, 1 mg/m3 ORICA Australia quoting DSM Chemicals

Saturated vapour concentration: 1395 ppm at 20 deg.

These exposure guidelines have been derived from a screening level of risk assessment and should not be construed as unequivocally safe limits.

For trimethyl benzene as mixed isomers (of unstated proportions) Odour Threshold Value: 2.4 ppm (detection)

Use care in interpreting effects as a single isomer or other isomer mix.

Exposed individuals are NOT reasonably expected to be warned, by smell, that the Exposure Standard is being exceeded.

for xylenes: IDLH Level: 900 ppm

Odour Threshold Value: 20 ppm (detection), 40 ppm (recognition)

NOTE: Detector tubes for o-xylene, measuring in excess of 10 ppm, are available commercially.

for ethyl benzene:

Odour Threshold Value: 0.46-0.60 ppm

NOTE: Detector tubes for ethylbenzene, measuring in excess of 30 ppm, are commercially available.

NOTE P: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.01% w/w benzene (EINECS No 200-753-7).

### Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Individual protection measures, such as personal protective equipment	
Eye and face protection	Safety glasses with side shields.
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals.</li> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer.</li> </ul>
Body protection	Overalls
Other protection	Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.

### **Respiratory protection**

Respiratory protection required in insufficiently ventilated working areas and during spraying. An approved respirator with a replaceable vapour/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to AS/NZS 1715 Standard, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716 Standard, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances. Recommended filter type: Type A filter (organic vapour).

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

### Information on basic physical and chemical properties

Appearance	Dispersion with strong solvent odour		
Physical state	Liquid	Relative density (Water = 1)	1.52-1.54
Odour	Not Available	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)	140-160	Molecular weight (g/mol)	Not Available
Flash point (°C)	36-45	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	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)	20-30
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	350-400

# SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	► stable.
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	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. Inhalation of vapours may cause drowsiness and dizziness.
Ingestion	Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemorrhaging, pulmonary oedema, progressing to chemical pneumonitis; serious consequences may result.
Skin Contact	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects.
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals. On the basis, primarily, of animal experiments, the material may be regarded as carcinogenic to humans. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure. There is sufficient evidence to provide a strong presumption that human exposure to the material may result in impaired fertility on the basis of: - clear evidence in animal studies of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same
	dose levels as other toxic effects but which is not a secondary non-specific consequence of other toxic effects. Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking.

RESENE ARMOURCOTE 210	ΤΟΧΙΟΙΤΥ		IRRITATI	ON	
BASE	Not Available Not		Not Availa	able	
	ΤΟΧΙΟΙΤΥ			IRRITATION	
methyl ethyl ketoxime	Dermal (rabbit) LD50: >184<1840 mg/kg <sup>[1]</sup>		Eye (rabbit): 0.1 ml - SEVERE		
metryr etryr ketoxime	Inhalation (Rat) LC50: >4.83 mg/l4h <sup>[1]</sup>				
	Oral (Rat) LD50: >900 mg/kg <sup>[1]</sup>				
	TOXICITY	IRRITA	IRRITATION		
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit) : 500 mg/24 h - mild		mg/24 h - mild	
zinc oxide	Inhalation (Rat) LC50: >1.79 mg/l4h <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		ffect observed (not irritating) <sup>[1]</sup>	
	Oral (Rat) LD50: >5000 mg/kg <sup>[1]</sup>	Skin (rabbit) : 500 mg/24 h- mild		mg/24 h- mild	
		Skin: no adverse effect observed (not irritating		effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY	IR	RITATION		
	Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup> Eye (ht		ye (human):	(human): 200 ppm irritant	
volene	Inhalation (Rat) LC50: 5000 ppm4h <sup>[2]</sup> Eye (rabbit		ye (rabbit): {	abbit): 5 mg/24h SEVERE	
xylene	Oral (Mouse) LD50; 2119 mg/kg <sup>[2]</sup>	E	ye (rabbit): 8	87 mg mild	
		E	ye: adverse	effect observed (irritating) <sup>[1]</sup>	
		S	kin (rabbit):	500 mg/24h moderate	

		Skin: adverse effect observed (irritating) <sup>[1]</sup>
	ТОХІСІТҮ	IRRITATION
	Dermal (rabbit) LD50: 17800 mg/kg <sup>[2]</sup>	Eye (rabbit): 500 mg - SEVERE
ethylbenzene	Inhalation (Rat) LC50: 17.2 mg/l4h <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup>	Skin (rabbit): 15 mg/24h mild
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	ΤΟΧΙΟΙΤΥ	IRRITATION
naphtha petroleum, heavy,	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
hydrodesulfurised	Inhalation (Rat) LC50: >1.58 mg/l4h <sup>[1]</sup>	Skin: adverse effect observed (irritating) <sup>[1]</sup>
	Oral (Rat) LD50: >4500 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	TOXICITY	IRRITATION
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
cobalt(II) octoate	Inhalation (Rat) LC50: >2.5 mg/L4h <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (Rat) LD50: 3129 mg/kg <sup>[1]</sup>	
Legend:	Value obtained from Europe ECHA Registered Su specified data extracted from RTECS - Register of 1	ubstances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwis

RESENE ARMOURCOTE 210 BASE	Data demonstrate that during inhalation exposure,arc	Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.			
METHYL ETHYL KETOXIME	Mammalian lymphocyte mutagen *Huls Canada ** Merck For methyl ethyl ketoxime (MEKO) <b>Carcinogenicity:</b> Increased incidences of liver tumours were observed in rat and mouse lifetime studies and there was also an increased incidence of mammary gland tumours in female rats, however, this was only seen at mid- and/or high concentrations of MEKO.				
XYLENE	Reproductive effector in rats The substance is classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or lim	ited in animal testing.			
ETHYLBENZENE	Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded. Ethylbenzene is readily absorbed following inhalation, oral, and dermal exposures, distributed throughout the body, and excreted primarily through urine. <b>NOTE:</b> 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.				
	WARNING: This substance has been classified by the		•		
NAPHTHA PETROLEUM, HEAVY, HYDRODESULFURISED	Studies indicate that normal, branched and cyclic paraffins are absorbed from the mammalian gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. For C9 aromatics (typically trimethylbenzenes - TMBs) Acute Toxicity Acute toxicity studies (oral, dermal and inhalation routes of exposure) have been conducted in rats using various solvent products containing predominantly mixed C9 aromatic hydrocarbons (CAS RN 64742-95-6). For petroleum: This product contains benzene, which can cause acute myeloid leukaemia, and n-hexane, which can be metabolized to compounds which are toxic to the nervous system.				
COBALT(II) OCTOATE	Fatty acid salts are of low acute toxicity.				
RESENE ARMOURCOTE 210 BASE & METHYL ETHYL KETOXIME & COBALT(II) OCTOATE	The following information refers to contact allergens as a group and may not be specific to this product.				
RESENE ARMOURCOTE 210 BASE & NAPHTHA PETROLEUM, HEAVY, HYDRODESULFURISED	For trimethylbenzenes: Absorption of 1,2,4-trimethylbenzene occurs after oral, inhalation, or dermal exposure.				
ZINC OXIDE & XYLENE & ETHYLBENZENE	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).				
XYLENE & ETHYLBENZENE	The material may produce severe irritation to the eye causing pronounced inflammation.				
NAPHTHA PETROLEUM, HEAVY, HYDRODESULFURISED & COBALT(II) OCTOATE	No significant acute toxicological data identified in literature search.				
Acute Toxicity	✓	Carcinogenicity	✓		
Skin Irritation/Corrosion	✓	Reproductivity	<ul> <li>✓</li> </ul>		
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓		
	1		l		

Respiratory or Skin sensitisation	×	STOT - Re	epeated Exposure	~
Mutagenicity	×		Aspiration Hazard	×
		Legend:		ot available or does not fill the criteria for classification le to make classification

**SECTION 12 Ecological information** 

Toxicity

ESENE ARMOURCOTE 210	Endpoint	Test Duration (hr)		Species	Value	Sour	ce
BASE	Not Available	Not Available		Not Available	Not Available	Not A	vailable
	Endpoint	Test Duration (hr)	S	pecies		Value	Source
	BCF	1008h	F	ïsh		0.5-0.6	7
	EC50	48h	C	Crustacea		~201mg/l	2
methyl ethyl ketoxime	EC50	72h	A	Igae or other aquatic pla	nts	~6.09mg/l	2
	NOEC(ECx)	72h	A	Igae or other aquatic pla	nts	~1.02mg/l	2
	LC50	96h	Fish			>100mg/l	2
	Endpoint	Test Duration (hr)	Sp	pecies		Value	Source
	EC50	96h		gae or other aquatic plan	ts	0.042mg/L	2
	BCF	1344h	Fis	sh		19-110	7
	ErC50	72h	Al	gae or other aquatic plan	ts	0.62mg/l	2
zinc oxide	EC50	48h		ustacea		0.105mg/L	2
	EC50	72h	Al	gae or other aquatic plan	ts	0.022mg/L	2
	EC10(ECx)	168h		gae or other aquatic plan		0.003mg/L	2
	LC50	96h	Fis	sh		0.102mg/L	2
	Endpoint	Test Duration (hr)		Species		Value	Source
	EC50	48h		Crustacea		1.8mg/l	2
xylene	EC50	72h		Algae or other aquatic pla	ants	4.6mg/l	2
	NOEC(ECx)	73h		Algae or other aquatic pla		0.44mg/l	2
	LC50	96h		Fish		2.6mg/l	2
	Endpoint	Test Duration (hr)	Speci		Value		Source
	EC50	96h		or other aquatic plants	1.7-7.6	-	4
ethylbenzene	EC50	48h	Crusta		1.37-4	-	4
-	EC50	72h Algae or other aquatic plants		2.4-9.8	-	4	
	EC50(ECx)	24h			38mg/l	4	
	LC50	96h	Fish		3.381-	4.075mg/L	4
	Endpoint	Test Duration (hr)	s	pecies		Value	Source
	EC50	72h	A	lgae or other aquatic pla	nts	391mg/l	2
	EC50(ECx)	72h	A	Algae or other aquatic plants		391mg/l	2
nanhtha natrolaum baarre	EC50	96h	A	Algae or other aquatic plants		0.58mg/l	2
naphtha petroleum, heavy, hydrodesulfurised	NOEC(ECx)	504h	C	Crustacea		0.097mg/l	2
	EC50	72h	A	lgae or other aquatic pla	nts	0.53mg/l	2
	EC50	96h	A	Algae or other aquatic plants		0.277mg/l	2
	NOEC(ECx)	720h	F	Fish		0.02mg/l	2
	LC50	96h	F	ïsh		0.14mg/l	2
	Endpoint	Test Duration (hr)	Sp	pecies		Value	Source
	EC50	96h	Al	gae or other aquatic plan	ts	10.8mg/l	2
	ErC50	72h	Al	gae or other aquatic plan	ts	0.654mg/L	2
cobalt(II) octoate	EC50	48h	Cr	ustacea		0.241mg/L	2
	EC50	72h	Al	gae or other aquatic plan	ts	0.029mg/L	2

	LC50	96h	Fish	0.8mg/l	2
Legend:	Extracted from 1. IUC	CLID Toxicity Data 2. Europe ECHA	Registered Substances - Ecotoxicological Informa	tion - Aquatic 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

Toxic to aquatic organisms.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. For 1,2,4 - Trimethylbenzene:

Half-life (hr) air: 0.48-16;

Half-life (hr) H2O surface water: 0.24 -672: Half-life (hr) H2O ground: 336-1344; Half-life (hr) soil: 168-672: Henry's Pa m3 /mol: 385 -627;

Bioaccumulation: not significant

For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs. For Xylenes:

log Koc : 2.05-3.08; Koc : 25.4-204; Half-life (hr) air : 0.24-42; Half-life (hr) H2O surface water : 24-672; Half-life (hr) H2O ground : 336-8640; Half-life (hr) soil : 52-672; Henry's Pa m3 /mol : 637-879; Henry's atm m3 /mol - 7.68E-03; BOD 5 if unstated - 1.4,1%; COD - 2.56,13% ThOD - 3.125 : BCF : 23; log BCF : 1.17-2.41. DO NOT discharge into sewer or waterways

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
methyl ethyl ketoxime	LOW	LOW
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)

#### Bioaccumulative potential

Ingredient	Bioaccumulation
methyl ethyl ketoxime	LOW (BCF = 5.8)
zinc oxide	LOW (BCF = 217)
xylene	MEDIUM (BCF = 740)
ethylbenzene	LOW (BCF = 79.43)

#### Mobility in soil

Ingredient	Mobility
methyl ethyl ketoxime	LOW (Log KOC = 130.8)
ethylbenzene	LOW (Log KOC = 517.8)

### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Legislation addressing waste disposal requirements may differ by country, state and/ or territory.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>Recycle wherever possible.</li> <li>Consult manufacturer for recycling option.</li> </ul>
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#### **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.

Do not allow product or wash water from cleaning or process equipment to enter drains or watercourses. It may be necessary to collect all wash water for treatment before disposal. The generation of waste should be avoided or minimised wherever possible

Disposal of this product should comply with Hazard Substances (Disposal) Notice 2017 (EPA Consolidation 30 April 2021) and local regulations.

Flammable substance can be disposed of if the substance is treated by using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance, or exporting the substance from New Zealand as waste.

For treating and discharging processes contact your local authority.

The treating may include burning the substance if the burning is managed to ensure that no person, or place where a person may legally be present.

The substance may be discharged into the environment as waste or disposed into a landfill if the substance will not come into contact with oxidising substances and where is no ignition source which is capable to ignite the substance.

### **SECTION 14 Transport information**

#### Labels Required



	Marine Pollutant	
HAZCHEM •3Y	HAZCHEM	•3Y

# Land transport (UN)

14.1. UN number or ID number	1263		
14.2. UN proper shipping name	PAINT RELATED MATERIAL (including paint thinning or reducing compound) (contains zinc oxide); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) (contains zinc oxide)		
14.3. Transport hazard class(es)	Class     3       Subsidiary Hazard     Not Applicable		
14.4. Packing group	Ш		
14.5. Environmental hazard	Environmentally hazardous		
14.6. Special precautions for user	Special provisions     163; 223; 367       Limited quantity     5 L		

# Air transport (ICAO-IATA / DGR)

14.1. UN number	1263			
14.2. UN proper shipping name	Paint related material (including paint thinning or reducing compounds) (contains zinc oxide); Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) (contains zinc oxide)			
	ICAO/IATA Class	3		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
01400(00)	ERG Code	3L		
14.4. Packing group				
14.5. Environmental hazard	Environmentally hazardous			
	Special provisions		A3 A72 A192	
	Cargo Only Packing Instructions		366	
	Cargo Only Maximum Qty / Pack		220 L	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		355	
	Passenger and Cargo Maximum Qty / Pack		60 L	
	Passenger and Cargo Limited Qu	antity Packing Instructions	Y344	
	Passenger and Cargo Limited Ma	aximum Qty / Pack	10 L	

# Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1263		
14.2. UN proper shipping name	PAINT RELATED MATERIAL (including paint thinning or reducing compound) (contains zinc oxide); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) (contains zinc oxide)		
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Haz	3       ard     Not Applicable	
4.4. Packing group	ш		
14.5 Environmental hazard	Marine Pollutant		
	EMS Number	F-E , S-E	
14.6. Special precautions for user	Special provisions	163 223 367 955	
	Limited Quantities	5L	

# 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
methyl ethyl ketoxime	Not Available
zinc oxide	Not Available
xylene	Not Available
ethylbenzene	Not Available

Product name	Group
naphtha petroleum, heavy, hydrodesulfurised	Not Available
cobalt(II) octoate	Not Available

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

Product name	Ship Type
methyl ethyl ketoxime	Not Available
zinc oxide	Not Available
xylene	Not Available
ethylbenzene	Not Available
naphtha petroleum, heavy, hydrodesulfurised	Not Available
cobalt(II) octoate	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
HSR002669	Surface Coatings and Colourants Flammable Carcinogenic Group Standard 2020

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

### methyl ethyl ketoxime is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List New Zealand Approved Hazardous Substances with controls New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data New Zealand Inventory of Chemicals (NZIoC) zinc oxide is found on the following regulatory lists International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS) New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data New Zealand Inventory of Chemicals (NZIoC) New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods New Zealand Workplace Exposure Standards (WES) xylene is found on the following regulatory lists International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic New Zealand Approved Hazardous Substances with controls New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES) ethylbenzene is found on the following regulatory lists 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 New Zealand Approved Hazardous Substances with controls New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES) naphtha petroleum, heavy, hydrodesulfurised is found on the following regulatory lists Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic New Zealand Approved Hazardous Substances with controls New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals New Zealand Inventory of Chemicals (NZIoC) New Zealand Land Transport Rule; Dangerous Goods 2005 - Schedule 2 Dangerous Goods in Limited Quantities and Consumer Commodities

New Zealand Workplace Exposure Standards (WES)

### cobalt(II) octoate is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

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

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods

New Zealand Workplace Exposure Standards (WES)

### Additional Regulatory Information

Not Applicable

### **Hazardous Substance Location**

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

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
3.1C	500 L in containers more than 5 L	250 L
3.1C	1 500 L in containers up to and including 5 L	250 L

# **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
6.5A or 6.5B	120	1	3	
3.1C or 3.1D				10 L

### **Tracking Requirements**

Not Applicable

### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (methyl ethyl ketoxime; xylene; ethylbenzene; naphtha petroleum, heavy, hydrodesulfurised; cobalt(II) octoate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
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	12/03/2024
Initial Date	13/06/2019

### **SDS Version Summary**

Version Date of Update	Sections Updated
1.2 12/03/202	Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), Toxicological information - Acute Health (swallowed), First Aid measures - Advice to Doctor, Toxicological information - Chronic Health, Hazards identification - Classification, Exposure controls / personal protection - Engineering Control, Ecological Information - Environmental, Exposure controls / personal protection - Exposure Standard, Firefighting measures - Fire Fighter (fire/explosion hazard), Handling and storage - Handling Procedure, Composition / information on ingredients - Ingredients, Exposure controls / personal protection - Personal protection - Personal Protection (Respirator), Identification of the substance / mixture and of the company / undertaking - Supplier Information

### 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.

end of SDS

### **RESENE ARMOURCOTE 210 BASE**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- ۲ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit ٠
- ۲ TEEL: Temporary Emergency Exposure Limit.
- ۲ IDLH: Immediately Dangerous to Life or Health Concentrations
- ٠ ES: Exposure Standard
- OSF: Odour Safety Factor ٠
- NOAEL: No Observed Adverse Effect Level ۶
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value ۲
- LOD: Limit Of Detection ۲
- OTV: Odour Threshold Value ۲ BCF: BioConcentration Factors
- ۶ BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level ۲
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- ٠ **DSL: Domestic Substances List**
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China ۲
- EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- ۲ INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances ۲

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