# **RESENE ARMOURCOTE 210 BASE**

# **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
	00 , 00, 0

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

B	D D TD
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, Serious 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, Hazardous to the Aquatic Environment Long-Term Hazard Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Determined by Chemwatch using GHS/HSNO criteria

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

Hazard pictogram(s)









Signal word

Warning

### Hazard statement(s)

nazara otatomoni(o)	
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.

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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	Toxic to aquatic life with long lasting effects.

# Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P260	Do not breathe mist/vapours/spray.
P271	Use only a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P270	Do not eat, drink or smoke when using this product.
P264	Wash all exposed external body areas thoroughly after handling.
P273	Avoid release to the environment.
P272	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	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	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	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]	Name
96-29-7	0.1-0.5	methyl ethyl ketoxime
1314-13-2	1-5	<u>zinc oxide</u>
1330-20-7	1-10	xylene
100-41-4	1-10	ethylbenzene
64742-82-1.	0.1-1	naphtha petroleum, heavy, hydrodesulfurised
136-52-7	<=0.1	cobalt(II) octoate
Legend:	Classified by Chemwatch; 2. C     Classification drawn from C&L	Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI;

# **SECTION 4 First aid measures**

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### Description of first aid measures

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.  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.
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

► Avoid contamination with oxidising agents

Treat symptomatically.

# **SECTION 5 Firefighting measures**

Fire Incompatibility

### **Extinguishing media**

Foam.

# Special hazards arising from the substrate or mixture

Advice for firefighters	
Advice for firefighters	
Fire Fighting	▶ Alert Fire Brigade and tell them location and nature of hazard.
Fire/Explosion Hazard	Liquid and vapour are flammable. Combustion products include: carbon dioxide (CO2) carbon monoxide (CO) metal oxides other pyrolysis products typical of burning organic material.

# **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

- ▶ Containers, even those that have been emptied, may contain explosive vapours.
- · Electrostatic discharge may be generated during pumping this may result in fire.

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	Avoid unnecessary personal contact, including inhalation.  DO NOT allow clothing wet with material to stay in contact with skin
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	D	> 0.1 to ≤ 1 ppm
Notes:	Occupational exposure banding is a process of assigning chemicals into s adverse health outcomes associated with exposure. The output of this pro- range of exposure concentrations that are expected to protect worker hea	ocess is an occupational exposure band (OEB), which corresponds to a

### 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.

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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

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# **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 to	oxicological	effects
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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.
Еуе	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.

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BASE

TOXICITY	IRRITATION
Not Available	Not Available

# methyl ethyl ketoxime

TOXICITY	IRRITATION
Dermal (rabbit) LD50: >184<1840 mg/kg <sup>[1]</sup>	Eye (rabbit): 0.1 ml - SEVERE
Inhalation (Rat) LC50: >4.83 mg/l4h <sup>[1]</sup>	
Oral (Rat) LD50; >900 mg/kg <sup>[1]</sup>	

# zinc oxide

TOXICITY	IRRITATION	
dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit) : 500 mg/24 h - mild	
Inhalation (Rat) LC50: >1.79 mg/l4h <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
Oral (Rat) LD50: >5000 mg/kg <sup>[1]</sup>	Skin (rabbit) : 500 mg/24 h- mild	
	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	

# xylene

TOXICITY	IRRITATION
Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>	Eye (human): 200 ppm irritant
Inhalation (Rat) LC50: 5000 ppm4h <sup>[2]</sup>	Eye (rabbit): 5 mg/24h SEVERE
Oral (Mouse) LD50; 2119 mg/kg <sup>[2]</sup>	Eye (rabbit): 87 mg mild
	Eye: adverse effect observed (irritating) $^{[1]}$
	Skin (rabbit):500 mg/24h moderate

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Skin: adverse effect observed (irritating)<sup>[1]</sup> TOXICITY IRRITATION Dermal (rabbit) LD50: 17800 mg/kg<sup>[2]</sup> Eye (rabbit): 500 mg - SEVERE Inhalation (Rat) LC50: 17.2 mg/l4h<sup>[2]</sup> Eye: no adverse effect observed (not irritating)[1]ethylbenzene Oral (Rat) LD50: 3500 mg/kg[2] Skin (rabbit): 15 mg/24h mild Skin: no adverse effect observed (not irritating)[1] TOXICITY IRRITATION Dermal (rabbit) LD50: >1900 mg/kg<sup>[1]</sup> Eye: no adverse effect observed (not irritating)<sup>[1]</sup> naphtha petroleum, heavy, 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> Leaend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances **RESENE ARMOURCOTE 210** Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues. Mammalian lymphocyte mutagen \*Huls Canada \*\* Merck For methyl ethyl ketoxime (MEKO) METHYL ETHYL KETOXIME Carcinogenicity: 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. The substance is classified by IARC as Group 3: **XYLENE** NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. 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. **ETHYLBENZENE** 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. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. 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) NAPHTHA PETROLEUM, Acute Toxicity HEAVY, Acute toxicity studies (oral, dermal and inhalation routes of exposure) have been conducted in rats using various solvent products containing HYDRODESULFURISED 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** The following information refers to contact allergens as a group and may not be specific to this product. **KETOXIME & COBALT(II)** OCTOATE **RESENE ARMOURCOTE 210 BASE & NAPHTHA** For trimethylbenzenes: PETROLEUM, HEAVY, Absorption of 1,2,4-trimethylbenzene occurs after oral, inhalation, or dermal exposure. **HYDRODESULFURISED** ZINC OXIDE & XYLENE & The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). **ETHYLBENZENE XYLENE & ETHYLBENZENE** The material may produce severe irritation to the eye causing pronounced inflammation. NAPHTHA PETROLEUM. HEAVY. No significant acute toxicological data identified in literature search. HYDRODESULFURISED & COBALT(II) OCTOATE **Acute Toxicity** Carcinogenicity Skin Irritation/Corrosion Reproductivity Serious Eye Damage/Irritation STOT - Single Exposure

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Respiratory or Skin sensitisation

Mutagenicity

X

STOT - Repeated Exposure

Aspiration Hazard

**Legend:** X − Da

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

# **SECTION 12 Ecological information**

### Toxicity

RESENE ARMOURCOTE 210 BASE	Endpoint	Test Duration (hr)	Species	Value	Source	
	Not Available	Not Available	Not Available	Not Available	Not Ava	ilable
Endpoint Test Duration (hr) Species Value						Source
	BCE.	1000h	Fieb		0.5.0.6	7

# methyl ethyl ketoxime

Endpoint	Test Duration (hr)	Species	Value	Source
BCF	1008h	Fish	0.5-0.6	7
EC50	48h	Crustacea	~201mg/l	2
EC50	72h	Algae or other aquatic plants	~6.09mg/l	2
NOEC(ECx)	72h	Algae or other aquatic plants	~1.02mg/l	2
LC50	96h	Fish	>100mg/l	2

# zinc oxide

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	96h	Algae or other aquatic plants	0.042mg/L	2
BCF	1344h	Fish	19-110	7
ErC50	72h	Algae or other aquatic plants	0.62mg/l	2
EC50	48h	Crustacea	0.105mg/L	2
EC50	72h	Algae or other aquatic plants	0.022mg/L	2
EC10(ECx)	168h	Algae or other aquatic plants	0.003mg/L	2
LC50	96h	Fish	0.102mg/L	2

# xylene

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	48h	Crustacea	1.8mg/l	2
EC50	72h	Algae or other aquatic plants	4.6mg/l	2
NOEC(ECx)	73h	Algae or other aquatic plants	0.44mg/l	2
LC50	96h	Fish	2.6mg/l	2

# ethylbenzene

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	96h	Algae or other aquatic plants	1.7-7.6mg/l	4
EC50	48h	Crustacea	1.37-4.4mg/l	4
EC50	72h	Algae or other aquatic plants	2.4-9.8mg/l	4
EC50(ECx)	24h	Algae or other aquatic plants	0.02-938mg/l	4
LC50	96h	Fish	3.381-4.075mg/L	4

## naphtha petroleum, heavy, hydrodesulfurised

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	391mg/l	2
EC50(ECx)	72h	Algae or other aquatic plants	391mg/l	2
EC50	96h	Algae or other aquatic plants	0.58mg/l	2
NOEC(ECx)	504h	Crustacea	0.097mg/l	2
EC50	72h	Algae or other aquatic plants	0.53mg/l	2
EC50	96h	Algae or other aquatic plants	0.277mg/l	2
NOEC(ECx)	720h	Fish	0.02mg/l	2
LC50	96h	Fish	0.14mg/l	2

# cobalt(II) octoate

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	96h	Algae or other aquatic plants	10.8mg/l	2
ErC50	72h	Algae or other aquatic plants	0.654mg/L	2
EC50	48h	Crustacea	0.241mg/L	2
EC50	72h	Algae or other aquatic plants	0.029mg/L	2
EC10(ECx)	168h	Crustacea	0.001mg/L	2

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Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - 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

Containers may still present a chemical hazard/ danger when empty.

Product / Packaging disposal

Legislation addressing waste disposal requirements may differ by country, state and/ or territory.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- Recycle wherever possible.

Consult manufacturer for recycling option.

## 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**



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# 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 Subsidiary Hazard	Not Applicable	
14.4. Packing group	III.		
14.5. Environmental hazard	Environmentally hazardous		
14.6. Special precautions for user	Special provisions Limited quantity	163; 223; 367 5 L	

### Air transport (ICAO-IATA / DGR)

14.1. UN number	1263			
14.2. UN proper shipping name	Paint related material (including pai shellac, varnish, polish, liquid filler a		, ,	e); Paint (including paint, lacquer, enamel, stain,
	ICAO/IATA Class	3		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
0.000(00)	ERG Code	3L		
14.4. Packing group	III			
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 Quantity Packing Instructions		Y344	
	Passenger and Cargo Limited Quantity   acking instituctions		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	3	
	IMDG Subsidiary Haz	zard Not Applicable	
14.4. Packing group	III		
14.5 Environmental hazard	Marine Pollutant		
	EMS Number	F-E , S-E	
14.6. Special precautions for user	Special provisions	163 223 367 955	
usui	Limited Quantities	5 L	

# 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

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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)

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### **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	12/03/2024	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 (other), Exposure controls / personal protection - Personal Protection (other), Exposure controls / personal protection - Personal Protection (other), Exposure controls / personal protection - Personal Protection (other), Exposure Controls / personal protection - Personal Protection (other), Exposure Controls / personal protection - Personal Protection (other), Exposure Controls / personal protection - Personal Protection (other), Exposure Controls / personal protection - Personal Protection (other), Exposure Controls / personal protection - Personal Protection (other), Exposure Controls / personal protection - Personal Protection (other), Exposure Controls / personal protection - Personal Protection (other), Exposure Controls / personal protection - Personal Protection (other), Exposure Controls / personal protection - Personal Protection (other), Exposure Controls / personal

### 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.

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- ▶ 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 Limit₀
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- 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
- DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- **DSL: Domestic Substances List**
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- 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
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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