# **RESENE STEEL FAB**

# **Resene Paints Ltd**

Version No: 2.2

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

Issue Date: 17/10/2024 Print Date: 17/10/2024 L.GHS.NZL.EN

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

# Product name RESENE STEEL FAB Synonyms Incl Red Oxide, PMS287 Blue, Grey, White, Grant Grey MTO Proper shipping name PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT RELATED MATERIAL (including paint thinning or reducing compound) Other means of identification Not Available

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

11651 11652 11653 11654 11655

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

Desistent desament nems	Parama Parima Lud
Registered company name	Resene Paints Ltd
Address	32-50 Vogel Street Wellington New Zealand
Telephone	+64 4 5770500
Fax	+64 4 5773327
Website	www.resene.co.nz
Email	advice@resene.co.nz

# Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone number(s)	0800 764766	+64 800 700 112
Other emergency telephone number(s)	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

Flammable Liquids Category 2, Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Skin Corrosion/Irritation Category 2, Specific Target Organ Toxicity - Single Exposure  Classification [1]  Flammable Liquids Category 2, Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 2, Specific Target Organ Toxicity - Single Exposure  Tract Irritation) Category 3, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeat Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term 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	3.1B, 6.1D (dermal), 6.1D (oral), 6.3A, 6.4A, 6.5B (contact), 6.7B, 6.8B, 6.9B, 9.1A, 9.1B, 6.1E (respiratory tract irritant)	

# Label elements

Hazard pictogram(s)







Signal word	Danger
-------------	--------

# Hazard statement(s)

. ,	
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.

Version No: **2.2** Page **2** of **15** Issue Date: **17/10/2024** 

# **RESENE STEEL FAB**

Print Date: 17/10/2024

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure. (Oral, Dermal, Inhalation)
H400	Very toxic to aquatic life.
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.
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.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

# Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.		
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.		
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	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, EPAconsolidation 30 September 2022 to be identified:

# Mixtures

CAS No	%[weight]	Name
96-29-7	<0.1	methyl ethyl ketoxime
64742-82-1.	0.1-1	naphtha, petroleum, hydrodesulfurised heavy
7779-90-0	1-5	zinc phosphate
1330-20-7	20-40	xylene
100-41-4	1-5	<u>ethylbenzene</u>
64742-49-0.	1-5	naphtha petroleum, light, hydrotreated
108-88-3	1-5	toluene

Version No: 2.2 Page 3 of 15 Issue Date: 17/10/2024

#### **RESENE STEEL FAB**

Print Date: 17/10/2024

Legend:

1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; \* EU IOELVs available

# **SECTION 4 First aid measures**

#### Description of first aid measures

If this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- Figure 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.
- F Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

# **Skin Contact**

**Eye Contact** 

- If skin or hair contact occurs:
- Quickly but gently, wipe material off skin with a dry, clean cloth.
- Immediately remove all contaminated clothing, including footwear.
- Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.
- ► Transport to hospital, or doctor.

# 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.

- 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.

#### Ingestion

- 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.
- If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of

# 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 i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
----------------------	--

# Advice for firefighters

Advice for incligators		
Fire Fighting	► Alert Fire Brigade and tell them location and nature of hazard.	
Fire/Explosion Hazard	Liquid and vapour are highly flammable.  Combustion products include: carbon dioxide (CO2) 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, labelled container for waste disposal. Wipe up. 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.

Version No: **2.2** Page **4** of **15** Issue Date: **17/10/2024** 

#### **RESENE STEEL FAB**

Print Date: 17/10/2024

# **SECTION 7 Handling and storage**

Other information

# 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.

Avoid unnecessary personal contact, including inhalation.

DO NOT allow clothing wet with material to stay in contact with skin

▶ Store in original containers in approved flame-proof area.

Conditions for safe storage including any incompatibilities

Conditions for safe storage, including any incompatibilities		
Suitable container	Packing as supplied by manufacturer.	
Storage incompatibility	▶ may ignite in contact with 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)	naphtha, petroleum, hydrodesulfurised heavy	Rubber solvent (Naphtha)	400 ppm / 1600 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	naphtha, petroleum, hydrodesulfurised heavy	Stoddard solvent (White spirits)	100 ppm / 525 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	zinc phosphate	Respirable dust (not otherwise classified)	3 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	zinc phosphate	Inhalable dust (not otherwise classified)	10 mg/m3	Not Available	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)	toluene	Toluene (Toluol)	20 ppm / 75 mg/m3	377 mg/m3 / 100 ppm	Not Available	(skin) - Skin absorption oto - Ototoxin (bio) - Exposure can also be estimated by biological monitoring

Ingredient	Original IDLH	Revised IDLH
methyl ethyl ketoxime	Not Available	Not Available
naphtha, petroleum, hydrodesulfurised heavy	20,000 mg/m3	Not Available
zinc phosphate	Not Available	Not Available
xylene	900 ppm	Not Available
ethylbenzene	Not Available	Not Available
naphtha petroleum, light, hydrotreated	Not Available	Not Available
toluene	500 ppm	Not Available

# Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
methyl ethyl ketoxime	D	> 0.1 to ≤ 1 ppm	
naphtha petroleum, light, hydrotreated	E	≤ 0.1 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.

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.

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

for heptane (all isomers)

The TLV-TWA is protective against narcotic and irritant effects which are greater than those of pentane or n-hexane but less than those of octane.

 Version No: 2.2
 Page 5 of 15
 Issue Date: 17/10/2024

 Print Date: 17/10/2024
 Print Date: 17/10/2024

# **RESENE STEEL FAB**

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.

For toluene:

Odour Threshold Value: 0.16-6.7 (detection), 1.9-69 (recognition) NOTE: Detector tubes measuring in excess of 5 ppm, are available.

# **Exposure controls**

Appropriate engineering controls	CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear 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.  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	Coloured dispersion with strong solvent odour		
Physical state	Liquid	Relative density (Water = 1)	1.25-1.28
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	458
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	470
Initial boiling point and boiling range (°C)	120-150	Molecular weight (g/mol)	Not Available
Flash point (°C)	28-32	Taste	Not Available
Evaporation rate	Not Available BuAC = 1	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	7.4	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.1	Volatile Component (%vol)	56
Vapour pressure (kPa)	1.5	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	3.6	VOC g/L	480-490
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available

Version No: 2.2 Page 6 of 15 Issue Date: 17/10/2024 Print Date: 17/10/2024

# **RESENE STEEL FAB**

	1		1
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

# **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 ed	ffects
Inhaled	Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation.  Inhalation of vapours may cause drowsiness and dizziness.  Inhalation hazard is increased at higher temperatures.  Acute effects from inhalation of high concentrations of vapour are pulmonary irritation, including coughing, with nausea; central nervous system depression - characterised by headache and dizziness, increased reaction time, fatigue and loss of co-ordination  The acute toxicity of inhaled alkylbenzene is best described by central nervous system depression.  When humans were exposed to the 100 and 200 ppm for 8 hours about 45-65% is retained in the body.  Headache, fatigue, lassitude, irritability and gastrointestinal disturbances (e.g., nausea, anorexia and flatulence) are the most common symptoms of xylene overexposure.
Ingestion	Strong evidence exists that exposure to the material may produce serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by swallowing.  The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models).  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.  Considered an unlikely route of entry in commercial/industrial environments The liquid may produce considerable gastrointestinal discomfort and may be harmful or toxic if swallowed.  Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption.  The material may accentuate any pre-existing dermatitis condition Application of isobutanol to human skin produced slight erythema and hyperaemia.  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.  The material produces moderate skin irritation; evidence exists, or practical experience predicts, that the material either  produces moderate inflammation of the skin in a substantial number of individuals following direct contact, and/or  produces significant, but moderate, 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.
Еуе	Evidence exists, or practical experience predicts, that the material may cause severe 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.  The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis.
	On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment.  Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems.  Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.  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.

# Chronic

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 establish a causal relationship between human exposure to the material and impaired fertility Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking.

Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes.

RESENE	STEEL	EVB
KESENE	SIEEL	FAD

TOXICITY	IRRITATION
Not Available	Not Available

# methyl ethyl ketoxime

TOXICITY	IRRITATION
Dermal (rabbit) LD50: >184<1840 mg/kg <sup>[1]</sup>	Eye (Rodent - rabbit): 100uL - Severe
Inhalation (Rat) LC50: >4.83 mg/l4h <sup>[1]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>

 Version No: 2.2
 Page 7 of 15
 Issue Date: 17/10/2024

 Print Date: 17/10/2024
 Print Date: 17/10/2024

# **RESENE STEEL FAB**

	Oral (Rat) LD50: >900 mg/kg <sup>[1]</sup>	Skin:	adverse effect observed (irritating)[1]
	TOXICITY	IRR	ITATION
	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Eye	(Human): 100ppm - Mild
	Inhalation (Rat) LC50: >1.58 mg/l4h <sup>[1]</sup>		(Human): 880ppm/15M
	Oral (Rat) LD50: >4500 mg/kg <sup>[1]</sup>		(Rodent - rabbit): 100mg - Mild
naphtha, petroleum, hydrodesulfurised heavy	Crar (ray 220017 1000 mg/ng		(Rodent - rabbit): 100uL - Mild
nyurouesununseu neavy			(Rodent - rabbit): 500mg/24H - Moderate
		Skin	(Human): 100%/3H
		Skin	(Rodent - rabbit): 500mg/24H - Moderate
		Skin	(Rodent - rabbit): 500uL - Moderate
	TOXICITY	IRRITA	TION
zinc phosphate	Inhalation (Rat) LC50: >5.7 mg/L4h <sup>[1]</sup>	Eye: no	adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>	Skin: n	o adverse effect observed (not irritating) <sup>[1]</sup>
			***
	TOXICITY	IRRI	TATION
	Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>	Eye	(Human): 200ppm
	Inhalation (Rat) LC50: 5000 ppm4h <sup>[2]</sup>	Eye	(Rodent - rabbit): 5mg/24H - Severe
	Oral (Mouse) LD50; 2119 mg/kg <sup>[2]</sup>	Eye	(Rodent - rabbit): 87mg - Mild
xylene	, , ,	Eve:	adverse effect observed (irritating) <sup>[1]</sup>
			(Rodent - rabbit): 100% - Moderate
			(Rodent - rabbit): 500mg/24H - Moderate
		Skin	(Rodent - rat): 60uL/8H - Mild
		Skin	: adverse effect observed (irritating)[1]
			<u> </u>
	TOXICITY		IRRITATION
	Dermal (rabbit) LD50: 17800 mg/kg <sup>[2]</sup>		Eye (Rodent - rabbit): 500mg - Severe
ethylbenzene	Inhalation (Rat) LC50: 17.2 mg/l4h <sup>[2]</sup>		Skin (Rodent - rabbit): 15mg/24H - Mild
			· · · · · · · · · · · · · · · · · · ·
	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup>		
	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup>	IRRITA	ATION
	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY	IRRIT/	
naphtha petroleum, light, hydrotreated	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup>	Eye: n	o adverse effect observed (not irritating) <sup>[1]</sup>
naphtha petroleum, light,	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup>	Eye: n	
naphtha petroleum, light,	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup>	Eye: n	o adverse effect observed (not irritating) <sup>[1]</sup>
naphtha petroleum, light,	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup>	Eye: n Skin: a	o adverse effect observed (not irritating) <sup>[1]</sup> idverse effect observed (irritating) <sup>[1]</sup>
naphtha petroleum, light,	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY	Eye: n Skin: a	o adverse effect observed (not irritating) <sup>[1]</sup> Idverse effect observed (irritating) <sup>[1]</sup> TATION
naphtha petroleum, light,	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup>	Eye: n Skin: a	o adverse effect observed (not irritating) <sup>[1]</sup> Idverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm
naphtha petroleum, light,	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup>	Eye: n Skin: a	o adverse effect observed (not irritating) <sup>[1]</sup> idverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm  (Rodent - rabbit): 0.1mL
naphtha petroleum, light,	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup>	Eye: n Skin: a IRRI Eye Eye	o adverse effect observed (not irritating) <sup>[1]</sup> Idverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm  (Rodent - rabbit): 0.1mL  (Rodent - rabbit): 0.1mL - Severe
naphtha petroleum, light,	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup>	Eye: n Skin: a  IRRI Eye Eye Eye Eye	o adverse effect observed (not irritating) <sup>[1]</sup> idverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm  (Rodent - rabbit): 0.1mL  (Rodent - rabbit): 0.1mL - Severe  (Rodent - rabbit): 100mg/30S - Mild
naphtha petroleum, light,	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup>	Eye: n Skin: a  IRRI Eye Eye Eye Eye Eye Eye	to adverse effect observed (not irritating) <sup>[1]</sup> sidverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm  (Rodent - rabbit): 0.1mL  (Rodent - rabbit): 0.1mL - Severe  (Rodent - rabbit): 100mg/30S - Mild  (Rodent - rabbit): 2mg/24H - Severe
naphtha petroleum, light,	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup>	Eye: n Skin: a	o adverse effect observed (not irritating) <sup>[1]</sup> indverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm  (Rodent - rabbit): 0.1mL  (Rodent - rabbit): 0.1mL - Severe  (Rodent - rabbit): 100mg/30S - Mild  (Rodent - rabbit): 2mg/24H - Severe  (Rodent - rabbit): 870ug - Mild
naphtha petroleum, light, hydrotreated	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup>	Eye: n Skin: a  IRRI Eye	o adverse effect observed (not irritating) <sup>[1]</sup> idverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm  (Rodent - rabbit): 0.1mL  (Rodent - rabbit): 0.1mL - Severe  (Rodent - rabbit): 100mg/30S - Mild  (Rodent - rabbit): 2mg/24H - Severe  (Rodent - rabbit): 870ug - Mild  adverse effect observed (irritating) <sup>[1]</sup>
naphtha petroleum, light, hydrotreated	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup>	Eye: n Skin: a  IRRI Eye Eye Eye Eye Eye Eye Eye Skin	o adverse effect observed (not irritating) <sup>[1]</sup> Idverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm  (Rodent - rabbit): 0.1mL  (Rodent - rabbit): 100mg/30S - Mild  (Rodent - rabbit): 2mg/24H - Severe  (Rodent - rabbit): 870ug - Mild  adverse effect observed (irritating) <sup>[1]</sup> (Mammal - pig): 250uL/24H - Mild
naphtha petroleum, light, hydrotreated	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup>	Eye: n Skin: a  IRRI Eye Eye Eye Eye Eye Eye Eye Skin Skin	o adverse effect observed (not irritating) <sup>[1]</sup> idverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm  (Rodent - rabbit): 0.1mL  (Rodent - rabbit): 0.1mL - Severe  (Rodent - rabbit): 100mg/30S - Mild  (Rodent - rabbit): 2mg/24H - Severe  (Rodent - rabbit): 870ug - Mild  adverse effect observed (irritating) <sup>[1]</sup>
naphtha petroleum, light, hydrotreated	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup>	Eye: n Skin: a  IRRI Eye Eye Eye Eye Eye Eye Skin Skin	o adverse effect observed (not irritating) <sup>[1]</sup> Indverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm  (Rodent - rabbit): 0.1mL  (Rodent - rabbit): 100mg/30S - Mild  (Rodent - rabbit): 20mg/24H - Severe  (Rodent - rabbit): 870ug - Mild  adverse effect observed (irritating) <sup>[1]</sup> (Mammal - pig): 250uL/24H - Mild  (Rodent - rabbit): 20mg/24H - Moderate
naphtha petroleum, light, hydrotreated	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup>	Eye: n Skin: a  IRRI Eye Eye Eye Eye Eye Skin Skin Skin	o adverse effect observed (not irritating) <sup>[1]</sup> Indverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm  (Rodent - rabbit): 0.1mL  (Rodent - rabbit): 0.1mL - Severe  (Rodent - rabbit): 100mg/30S - Mild  (Rodent - rabbit): 2mg/24H - Severe  (Rodent - rabbit): 870ug - Mild  adverse effect observed (irritating) <sup>[1]</sup> (Mammal - pig): 250uL/24H - Mild  (Rodent - rabbit): 20mg/24H - Moderate  (Rodent - rabbit): 435mg - Mild
naphtha petroleum, light, hydrotreated	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup>	Eye: n Skin: a  IRRI Eye Eye Eye Eye Eye Skin: Skin Skin	o adverse effect observed (not irritating) <sup>[1]</sup> idverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm  (Rodent - rabbit): 0.1mL  (Rodent - rabbit): 0.1mL - Severe  (Rodent - rabbit): 100mg/30S - Mild  (Rodent - rabbit): 2mg/24H - Severe  (Rodent - rabbit): 870ug - Mild  adverse effect observed (irritating) <sup>[1]</sup> (Mammal - pig): 250uL/24H - Mild  (Rodent - rabbit): 20mg/24H - Moderate  (Rodent - rabbit): 435mg - Mild  (Rodent - rabbit): 435mg - Mild
naphtha petroleum, light, hydrotreated	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup>	Eye: n Skin: a  IRRI Eye Eye Eye Eye Eye Skin: Skin Skin	o adverse effect observed (not irritating) <sup>[1]</sup> idverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm  (Rodent - rabbit): 0.1mL  (Rodent - rabbit): 100mg/30S - Mild  (Rodent - rabbit): 20mg/24H - Severe  (Rodent - rabbit): 870ug - Mild  adverse effect observed (irritating) <sup>[1]</sup> (Mammal - pig): 250uL/24H - Mild  (Rodent - rabbit): 20mg/24H - Moderate  (Rodent - rabbit): 345mg - Mild  (Rodent - rabbit): 500mg - Moderate
naphtha petroleum, light, hydrotreated	TOXICITY  dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup> Oral (Rat) LD50: 636 mg/kg <sup>[2]</sup>	Eye: n Skin: a  IRRI Eye Eye Eye Eye Eye Skin Skin Skin Skin Skin	o adverse effect observed (not irritating) <sup>[1]</sup> idverse effect observed (irritating) <sup>[1]</sup> TATION  (Human): 300ppm  (Rodent - rabbit): 0.1mL  (Rodent - rabbit): 100mg/30S - Mild  (Rodent - rabbit): 20mg/24H - Severe  (Rodent - rabbit): 870ug - Mild  adverse effect observed (irritating) <sup>[1]</sup> (Mammal - pig): 250uL/24H - Mild  (Rodent - rabbit): 20mg/24H - Moderate  (Rodent - rabbit): 345mg - Mild  (Rodent - rabbit): 500mg - Moderate

Version No: 2.2 Page 8 of 15 Issue Date: 17/10/2024

# **RESENE STEEL FAB**

Print Date: 17/10/2024

RESENE STEEL FAB	Asthma-like symptoms may continue for months or ev Data demonstrate that during inhalation exposure,arou						
METHYL ETHYL KETOXIME	For methyl ethyl ketoxime (MEKO)  Carcinogenicity: Increased incidences of liver tumou	Mammalian lymphocyte mutagen *Huls Canada ** Merck For methyl ethyl ketoxime (MEKO)  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.					
NAPHTHA, PETROLEUM, HYDRODESULFURISED HEAVY	No significant acute toxicological data identified in liter	No significant acute toxicological data identified in literature search.					
XYLENE	Reproductive effector in rats 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.						
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.  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.						
NAPHTHA PETROLEUM, LIGHT, HYDROTREATED	DHC Solvent Chemie (for EC No.: 926-605-8) For Low Boiling Point Naphthas (LBPNs): Acute toxicity: LBPNs generally have low acute toxicity by the oral (median lethal dose [LD50] in rats > 2000 mg/kg-bw), inhalation (LD50 in rats > 5000 mg/m3) and dermal (LD50 in rabbits > 2000 mg/kg-bw) routes of exposure Most LBPNs are mild to moderate eye and skin irritants in rabbits, with the exception of heavy catalytic cracked and heavy catalytic reformed naphthas, which have higher primary skin irritation indices.  The High Benzene Naphthas (HBNs; Lower Olefins and Aromatics -LOA - CAT H) Category was developed for the HPV Program by grouping ethylene manufacturing streams (products) that exhibit commonalities from both manufacturing process and compositional perspectives. 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.						
TOLUENE	For toluene:  Acute Toxicity  Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.						
RESENE STEEL FAB & METHYL ETHYL KETOXIME	The following information refers to contact allergens a	s a group and may not be specific to	this product.				
NAPHTHA, PETROLEUM, HYDRODESULFURISED HEAVY & NAPHTHA PETROLEUM, LIGHT, HYDROTREATED	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.						
XYLENE & ETHYLBENZENE	The material may produce severe irritation to the eye	causing pronounced inflammation.					
XYLENE & ETHYLBENZENE & TOLUENE	The material may cause skin irritation after prolonged	or repeated exposure and may produ	ice a contact dermatitis (nonallergic).				
Acute Toxicity	✓	Carcinogenicity	✓				
Skin Irritation/Corrosion	✓	Reproductivity	✓				
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓				
Respiratory or Skin sensitisation	•	STOT - Repeated Exposure	•				
Mutagenicity	×	Aspiration Hazard	×				

Legend:

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

# **SECTION 12 Ecological information**

# Toxicity

RESENE STEEL FAB	Endpoint	Test Duration (hr)	Species	Value	Sour	rce
	Not Available	Not Available	Not Available	Not Available	Not A	Available
	Endpoint	Test Duration (hr)	Species		Value	Source
methyl ethyl ketoxime	BCF	1008h	Fish		0.5-0.6	7
	EC50	72h	Algae or other aquation	plants	~6.09mg/l	2
	EC50	48h	Crustacea		~201mg/l	2
	LC50	96h	Fish		>100mg/l	2
	NOEC(ECx)	72h	Algae or other aquation	plants	~1.02mg/l	2

naphtha, petroleum,
mapmana, pomonoum,
hydrodesulfurised heavy
,

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	13mg/l	1
NOEC(ECx)	72h	Algae or other aquatic plants	0.1mg/l	1
EC50	48h	Crustacea	>0.002mg/l	2

 Version No: 2.2
 Page 9 of 15
 Issue Date: 17/10/2024

 Print Date: 17/10/2024
 Print Date: 17/10/2024

# **RESENE STEEL FAB**

	EC50(ECx)	48h	Cru	stacea	>0	.002mg/l	2
	EC50	96h	Alga	ae or other aquatic plants	64	mg/l	2
	EC50	72h	Alga	ae or other aquatic plants	0.9	53mg/l	2
	NOEC(ECx)	504h	Cru	stacea	0.0	097mg/l	2
	EC50	96h	Alga	ae or other aquatic plants	0.8	58mg/l	2
	EC50	48h	Cru	stacea	>1	00mg/l	1
	EC50(ECx)	48h	Cru	stacea	>1	00mg/l	1
	EC50	96h	Alga	ae or other aquatic plants	45	0mg/l	1
	EC50	72h	Alga	ae or other aquatic plants	6.5	5mg/l	1
	NOEC(ECx)	72h	Alga	ae or other aquatic plants	<0	.1mg/l	1
	LC50	96h	Fish	1	>1	00000mg/L	4
	EC50	96h	Alga	ae or other aquatic plants	64	mg/l	2
	EC50(ECx)	24h	Cru	stacea	36	mg/l	1
	LC50	96h	Fish	1		007mg/L	4
	EC50	72h		ae or other aquatic plants		5mg/l	1
	EC50	48h		stacea		7-5.1mg/L	4
	EC50	96h		ae or other aquatic plants		mg/l	2
	NOEC(ECx)	72h		ae or other aquatic plants		.1mg/l	1
	LC50	96h	Fish			3. mg/l	4
	EC50	72h					1
	EC50	96h		ae or other aquatic plants		5mg/l	2
				ae or other aquatic plants		mg/l	
	NOEC(ECx)	72h		ae or other aquatic plants		.1mg/l	1
	EC50	96h		ae or other aquatic plants		277mg/l	2
	NOEC(ECx)	720h	Fish			)2mg/l	2
	LC50	96h	Fish	ı	0.	14mg/l	2
	Endpoint	Test Duration (hr)	Sp	ecies		Value	Source
	EC50	72h		gae or other aquatic plants		0.051mg/L	2
	EC50	48h		ustacea		0.105mg/L	2
zinc phosphate	LC50	96h	Fis			0.09mg/L	4
	EC50	96h		gae or other aquatic plants		0.042mg/L	2
	EC10(ECx)	168h		gae or other aquatic plants		0.003mg/L	2
	1						
	Endpoint	Test Duration (hr)	:	Species		Value	Source
	EC50	72h		Algae or other aquatic plants		4.6mg/l	2
xylene	EC50	48h	(	Crustacea		1.8mg/l	2
	LC50	96h		Fish		2.6mg/l	2
	NOEC(ECx)	73h	,	Algae or other aquatic plants		0.44mg/l	2
	-	·					
	Endpoint	Test Duration (hr)	Specie	es	Value		Source
	EC50(ECx)	24h		or other aquatic plants		38mg/L	4
	LC50	96h	Fish			4.075mg/L	4
ethylbenzene	EC50	72h		or other aquatic plants	2.4-9.8	-	4
	EC50	48h	Crusta	· · · · · · · · · · · · · · · · · · ·		.4mg/l	4
	EC50	96h		or other aquatic plants	1.7-7.0	-	4
	L030	3011	Aigae	or other aquatic plants	1.7-7.0	Jilly/L	4
	Endpoint	Test Duration (hr)		Species		Value	Source
	EC50	48h		Crustacea		0.64mg/l	2
aphtha petroleum, light,	NOEC(ECx)	504h		Crustacea			2
hydrotreated						0.17mg/l	
	LC50	96h		Algon or other equatio plants		0.11mg/l	2
	EC50	96h	/	Algae or other aquatic plants		64mg/l	2
	Endpoint EC50	Test Duration (hr)		ecies		alue	Source

Algae or other aquatic plants

Crustacea

Crustacea

Fish

EC50

EC50

LC50

NOEC(ECx)

toluene

72h

168h

48h

96h

4

2

5

4

12.5mg/L

0.74mg/l

3.78mg/L

5-35mg/l

Version No: 2.2 Page 10 of 15 Issue Date: 17/10/2024

#### **RESENE STEEL FAB**

Print Date: 17/10/2024

	EC50	96h	Algae or other aquatic plants	>376.71mg/L	4
Legend:		atic Toxicity Data 5. ECETOC Aq	Registered Substances - Ecotoxicological Informution Hazard Assessment Data 6. NITE (Japan)	, ,	,

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

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water.

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 n-hexane: log Kow: 3.17-3.94 BOD 5 if unstated: 2.21 COD: 0.04 ThOD: 3.52

#### **Environmental fate:**

Transport and Partitioning: The physical properties of n-hexane that affect its transport and partitioning in the environment are: water solubility of 9.5 mg/L; log[Kow] (octanol/water partition coefficient), estimated as 3.29; Henry s law constant, 1.69 atm-m3 mol; vapor pressure, 150 mm Hg at 25 C; and log[Koc] in the range of 2.90 to 3.61.

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.

For ethylbenzene: log Kow, 3.15 log Koc: 1.98-3.04 Koc: 164

log Kom: 1.73-3.23

Vapour Pressure, 1270 Pa (1.27 kPa)

Half-life (hr) air: 0.24-85.6

Half-life (hr) H2O surface water: 5-240 Half-life (hr) H2O ground: 144-5472 Half-life (hr) soil: 72-240 Henry's Pa m3 /mol: 748-887 Henry's atm m3 /mol: 8.44E-03

ThOD: 3.17 BCF: 3.15-146 log BCF: 1.19-2.67 **Environmental fate:** 

Ethylbenzene partitions to air from water and soil, and is degraded in air.

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)
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)

# Bioaccumulative potential

Ingredient	Bioaccumulation
methyl ethyl ketoxime	LOW (BCF = 5.8)
xylene	MEDIUM (BCF = 740)
ethylbenzene	LOW (BCF = 79.43)
toluene	LOW (BCF = 90)

# Mobility in soil

Ingredient	Mobility
methyl ethyl ketoxime	LOW (Log KOC = 130.8)
ethylbenzene	LOW (Log KOC = 517.8)
toluene	LOW (Log KOC = 268)

# **SECTION 13 Disposal considerations**

# Waste treatment methods

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

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

Product / Packaging disposal

Version No: **2.2** Page **11** of **15** Issue Date: **17/10/2024** 

#### **RESENE STEEL FAB**

Print Date: 17/10/2024

Recycle wherever possible.

Consult manufacturer for recycling option.

Resene Paintwise accepts residual unwanted paint and packaging. See Resene website for Paintwise information. Or contact a Local Authority for the disposal information. Do not discharge the substance into the environment.

# **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 in ignition source which is capable to ignite the substance.

# **SECTION 14 Transport information**

#### Labels Required



# **Marine Pollutant**



HAZCHEM

•3YE

# 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); PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
14.3. Transport hazard class(es)	Class Subsidiary Hazard	Not Applicable	
14.4. Packing group	II.		
14.5. Environmental hazard	Environmentally hazardous		
14.6. Special precautions for user	Special provisions 163; 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); Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)			
	ICAO/IATA Class	3		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard Not Applicable			
Class(es)	ERG Code	3L		
14.4. Packing group	II .			
14.5. Environmental hazard	Environmentally hazardous			
	Special provisions		A3 A72 A192	
14.6. Special precautions for user	Cargo Only Packing Instructions		364	
	Cargo Only Maximum Qty / Pack		60 L	
	Passenger and Cargo Packing Instructions		353	
	Passenger and Cargo Maximum Qty / Pack		5 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y341	
	Passenger and Cargo Limited Ma	aximum Qty / Pack	1L	

 Version No: 2.2
 Page 12 of 15
 Issue Date: 17/10/2024

 Print Date: 17/10/2024
 Print Date: 17/10/2024

#### **RESENE STEEL FAB**

14.1. UN number	1263	1263			
14.2. UN proper shipping name	PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)				
14.3. Transport hazard class(es)	IMDG Class	3			
	IMDG Subsidiary Hazard Not Applicable				
14.4. Packing group	П				
14.5 Environmental hazard	Marine Pollutant				
	EMS Number	F-E , S-E			
14.6. Special precautions for user	Special provisions	163 367			
	Limited Quantities	51			

# 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
naphtha, petroleum, hydrodesulfurised heavy	Not Available
zinc phosphate	Not Available
xylene	Not Available
ethylbenzene	Not Available
naphtha petroleum, light, hydrotreated	Not Available
toluene	Not Available

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

Product name	Ship Type
methyl ethyl ketoxime	Not Available
naphtha, petroleum, hydrodesulfurised heavy	Not Available
zinc phosphate	Not Available
xylene	Not Available
ethylbenzene	Not Available
naphtha petroleum, light, hydrotreated	Not Available
toluene	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)

# naphtha, petroleum, hydrodesulfurised heavy 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 1 Quantity limits for dangerous goods

New Zealand Workplace Exposure Standards (WES)

# zinc phosphate is found on the following regulatory lists

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

Version No: 2.2 Page 13 of 15 Issue Date: 17/10/2024

#### **RESENE STEEL FAB**

Print Date: 17/10/2024

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 - Group 2B: Possibly carcinogenic to humans

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

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, light, hydrotreated 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 Inventory of Chemicals (NZIoC)

New Zealand Land Transport Rule; Dangerous Goods 2005 - Schedule 2 Dangerous Goods in Limited Quantities and Consumer Commodities

# toluene 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 Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

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)
3.1B	100 L in containers more than 5 L	50 L
3.1B	250 L in containers up to and including 5 L	50 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	
3.1B				1L

# **Tracking Requirements**

Not Applicable

# **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
New Zealand - NZIoC	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.	

Version No: 2.2 Page 14 of 15 Issue Date: 17/10/2024

#### **RESENE STEEL FAB**

Print Date: 17/10/2024

# **SECTION 16 Other information**

Revision Date	17/10/2024
Initial Date	05/08/2015

# **SDS Version Summary**

Version	Date of Update	Sections Updated
1.2	17/10/2024	Toxicological information - Acute Health (eye), Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (swallowed), Physical and chemical properties - Appearance, Toxicological information - Chronic Health, Hazards identification - Classification, Ecological Information - Environmental, Exposure controls / personal protection - Exposure Standard, Firefighting measures - Fire Fighter (fire/explosion hazard), First Aid measures - First Aid (skin), First Aid measures - First Aid (swallowed), Composition / information on ingredients - Ingredients, Exposure controls / personal protection - Personal Protection (Respirator), Identification of the substance / mixture and of the company / undertaking - Supplier Information, Identification of the substance / mixture and of the company / undertaking - Use

# 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.

#### **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
- 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

Powered by AuthorITe, from Chemwatch.

 Version No: 2.2
 Page 15 of 15
 Issue Date: 17/10/2024

 Print Date: 17/10/2024
 Print Date: 17/10/2024

**RESENE STEEL FAB**