RESENE MOULDEFENDER

Resene Paints Ltd

Version No: 1.1 Safety Data Sheet according to HSNO Regulations Issue Date: **26/06/2020** Print Date: **26/06/2020** L.GHS.NZL.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	RESENE MOULDEFENDER
Synonyms	Not Available
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains carbendazim, diuron and 2-octyl-4-isothiazolin-3-one)
Other means of identification	Not Available

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

Relevant identified uses	5673
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Details of the supplier of the safety data sheet

Registered company name	Resene Paints Ltd
Address	32-50 Vogel Street Wellington 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
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	Not Available	+61 2 9186 1132

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

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification ^[1]	Germ cell mutagenicity Category 1, Specific target organ toxicity - single exposure Category 1, Acute Aquatic Hazard Category 1, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Reproductive Toxicity Category 1, Acute Toxicity (Oral) Category 5, Skin Sensitizer Category 1, Specific target organ toxicity - repeated exposure Category 1, Chronic Aquatic Hazard Category 1, Carcinogenicity Category 2, Acute Terrestrial Hazard Category 2, Acute Vertebrate Hazard Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	6.1E (oral), 6.3A, 6.4A, 6.5B (contact), 6.6A, 6.7B, 6.8A, 6.9A, 9.1A, 9.2B, 9.3C

Label elements

Hazard pictogram(s)







SIGNAL WORD

DANGER

Hazard statement(s)

H340	May cause genetic defects.
H370	Causes damage to organs. (Oral, Dermal, Inhalation)
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.
H303	May be harmful if swallowed.
H317	May cause an allergic skin reaction.

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H372	Causes damage to organs through prolonged or repeated exposure. (Oral, Dermal, Inhalation)
H410	Very toxic to aquatic life with long lasting effects.
H351	Suspected of causing cancer.
H422	Toxic to the soil environment
H433	Harmful to terrestrial vertebrates.

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P260	Do not breathe mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

IF exposed or concerned: Call a POISON CENTER/doctor/physician/first aider.
Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
Specific treatment (see advice on this label).
Collect spillage.
IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Precautionary statement(s) Storage

P405	Store locked up.

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
330-54-1	10-40	diuron
26530-20-1	1-10	2-octyl-4-isothiazolin-3-one
10605-21-7	1-10	carbendazim

SECTION 4 FIRST AID MEASURES

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 seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly 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 fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

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Indication of any immediate medical attention and special treatment needed

for diuron:

- Symptomatic and supportive action is indicated.
- ▶ Methaemoglobinaemia is possible
- ▶ if compound is hydrolysed in vivo to aniline
- Methaemoglobinaemia causes cyanosis. Reversion of methaemoglobin to haemoglobin is spontaneous after removal from exposure, so moderate degrees of cyanosis need be treated only by supportive measures such as bed rest and oxygen inhalation.
- ▶ Thorough cleansing of the entire contaminated area of the body, including the scalp and nails is of the utmost importance.

The material may induce methaemoglobinaemia following exposure.

- Finitial attention should be directed at oxygen delivery and assisted ventilation if necessary. Hyperbaric oxygen has not demonstrated substantial benefits.
- ▶ Hypotension should respond to Trendelenburg's position and intravenous fluids; otherwise dopamine may be needed.
- Symptomatic patients with methaemoglobin levels over 30% should receive methylene blue. (Cyanosis, alone, is not an indication for treatment). The usual dose is 1-2 mg/kg of a 1% solution (10 mg/ml) IV over 50 minutes; repeat, using the same dose, if symptoms of hypoxia fail to subside within 1 hour.
- ▶ Thorough cleansing of the entire contaminated area of the body, including the scalp and nails, is of utmost importance.

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Index

Determinant
1. Methaemoglobin in blood

1.5% of haemoglobin

Sampling Time During or end of shift Comment B, NS, SQ

B: Background levels occur in specimens collected from subjects **NOT** exposed

NS: Non-specific determinant; also observed after exposure to other materials

SQ: Semi-quantitative determinant - Interpretation may be ambiguous; should be used as a screening test or confirmatory test.

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

Fire Fighting	► Alert Fire Brigade and tell them location and nature of hazard.
Fire/Explosion Hazard	Non combustible. Burning release: carbon dioxide (CO2) hydrogen chloride phosgene nitrogen oxides (NOx) 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	Environmental hazard - contain spillage. Control personal contact with the substance, by using personal protective equipment. Contain spill with sawdust, sand, earth, inert material or vermiculite then place in suitable, labelled container for waste disposal. Wipe up. Clean area with large quantity of water to complete clean- up.
Major Spills	Environmental hazard - contain spillage. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear appropriate personnel protective equipment and clothing to prevent exposure. Avoid breathing in mists or vapours and skin or eyes contact. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sawdust, sand, earth, inert material or vermiculite then place in suitable, labelled container for waste disposal. Clean contaminated objects and areas thoroughly observing environmental regulations. If the product contaminates waterways, inform competent authorities in accordance with local regulations.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	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.

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Conditions for safe storage, including any incompatibilities

Suitable container	▶ Packaging as recommended by manufacturer.
Storage incompatibility	► Avoid reaction with oxidising agents

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)	diuron	Diuron	10 mg/m3	Not Available	Not Available	6.7B-Suspected carcinogen

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3		
RESENE MOULDEFENDER	Not Available Not Available		Not Available Not Available			
Ingredient	Original IDLH	iginal IDLH		Revised IDLH		
diuron	Not Available		Not Available			
2-octyl-4-isothiazolin-3-one	Not Available		Not Available			
carbendazim	Not Available		Not Available			

OCCUPATIONAL EXPOSURE BANDING

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
2-octyl-4-isothiazolin-3-one	Е	≤ 0.1 ppm
carbendazim	E	≤ 0.01 mg/m³
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	cess is an occupational exposure band (OEB), which corresponds to a

MATERIAL DATA

for diuron:

Exposures at or below the recommended TLV-TWA is thought to protect the worker from the significant risk of anaemia and methaemoglobinaemia associated with use of the product. CEL TWA: 0.1 mg/m3; STEL 0.3 mg/m3 total isothiazolinones (Rohm and Haas) (CEL = Chemwatch Exposure Limit)

Exposure controls

•			
Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.		
Personal protection Eye and face protection Safety glasses with side shields. Skin protection See Hand protection below Wear chemical protective gloves, e.g. PVC.			
1 1			
Skin protection	Skin protection See Hand protection below		
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. NOTE: The material may produce skin sensitisation in predisposed individuals. 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. Butyl rubber gloves Nitrile rubber gloves (Note: Nitric acid penetrates nitrile gloves in a few minutes.) 		
Body protection	See Other protection below		
Other protection	► Overalls.		

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.

Type A Filter of sufficient capacity.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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Appearance White dispersion with mild odour Physical state Liquid Relative density (Water = 1) 1.1-1.2 Partition coefficient n-octanol Odour Not Available Not Available / water Odour threshold Not Available Auto-ignition temperature (°C) Not Available pH (as supplied) Decomposition temperature Not Available Melting point / freezing point Not Available Viscosity (cSt) Not Available Initial boiling point and boiling 100 Molecular weight (g/mol) Not Available range (°C) Flash point (°C) Not Available Taste Not Available **Evaporation rate** Not Available **Explosive properties** Not Available Flammability Oxidising properties Not Available Not Available Surface Tension (dyn/cm or Upper Explosive Limit (%) Not Available Not Available mN/m) Lower Explosive Limit (%) Volatile Component (%vol) Not Available Not Available

Gas group

VOC g/L

pH as a solution (1%)

Not Available

Not Available

SECTION 10 STABILITY AND REACTIVITY

Not Available

Not Available

Miscible

Vapour pressure (kPa)

Vapour density (Air = 1)

Solubility in water

Reactivity	See section 7
Chemical stability	▶ stable
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Strong evidence exists that exposure to the material may produce very serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by inhalation. Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation.
Ingestion	Strong evidence exists that exposure to the material may produce very serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by swallowing. The substance and/or its metabolites may bind to haemoglobin inhibiting normal uptake of oxygen. Isothiazolinones are moderately to highly toxic by oral administration. Acute toxicity of carbendazim is very low.
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 Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Aqueous solutions of isothiazolinones may be irritating or even corrosive depending on concentration. 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. Solutions containing isothiazolinones may produce corrosion of the mucous membranes and cornea.
Chronic	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. 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.

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There is sufficient evidence to provide a strong presumption that human exposure to the material may result in the development of heritable genetic damage, generally on the basis of - appropriate animal studies,

- other relevant information

Skin Irritation/Corrosion

Serious Eye Damage/Irritation

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.

Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

A number of benzimidazoles have been shown to also inhibit mammalian tubulin polymerisation and to be aneugenic in vivo.

Chronic effects of exposure to diuron may initially include skin irritation, or blurring of vision, liver enlargement; spleen and thyroid effects; red blood cell destruction; or reduction of the blood's oxygen carrying capacity with cyanosis (bluish discolourisation), weakness or shortness of breath by formation of methemoglobin.

The isothiazolinones are known contact sensitisers.

Carbendazim is the major metabolite of benomyl and thiophanate-methyl (TM).

TOXICITY IRRITATION	RESENE MOULDEFENDER	TOXICITY		IRRITATION		
diuron diuron diuron oral (rat) LD50: 1000 mg/kg ^[21] Oral (rat) LD50: 1000 mg/kg ^[21] TOXICITY Dermal (rabbit) LD50: 800 mg/kg ^[21] Eye (rabbit): 0.5% non initiant Oral (rat) LD50: 550 mg/kg ^[21] Eye (rabbit): 6% cone coCRROSIVE Eye (rabbit): 6% cone moderate Eye; drabbit): 5% cone selvere Eye; drabbit; 5% cone selvere Eye; drabb	RESENE MOULDEFENDER	Not Available		Not Available		
diuron diuron diuron Oral (rat) LD50: 1000 mg/kg ^[21] Oral (rat) LD50: 1000 mg/kg ^[21] Skin: no adverse effect observed (not irritating) ^[11] Dermal (rabbit) LD50: 800 mg/kg ^[21] Eye (rabbit): 0.5% non irritant Oral (rat) LD50: 550 mg/kg ^[21] Eye (rabbit): 5% cone CORROSIVE Eye (rabbit): 5% cone moderate Eye; (rabbit): 5% cone moderate Eye; (rabbit): 5% cone moderate Eye; (rabbit): 5% cone setVERE Skin (rabbit): 5% cone setVERE Skin (rabbit): 45% cone SetVERE Skin (rabbit): 45% cone SetVERE Skin (rabbit): 500 mg/24 hours Skin: adverse effect observed (irreversible damage) ^[11] Skin: adverse effect observed (irreversible damage) ^[11] Skin: adverse effect observed (irreversible damage) ^[11] Skin: adverse effect observed (irritating) ^[11] TOXICITY dermal (rat) LD50: 2000 mg/kg ^[21] Eye: no adverse effect observed (irritating) ^[11] Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2: "Value obtained from manufacturer's SDS. Unless otherwal specified data extracted from RTECS. Register of Trais Effect of chemical Substances Note: Equivocal animal tumorigenic agent by RTECS criteria. NOTE: This substance may contain impurities (lettachlorazooberozene) and leteral/inovazoopherozene), Masimum impurity levels are proceribed under various jurisdictions ADI: 0.006 mg/kg/day NOEL: 0.825 mg/kg/signloss for call toxicological data identified in literature search. ROHM 8 HAAS Data Dato 0.03 mg/kg/day NOEL: 0 mg/kg/day Intrapertioneal (RA, adult male) LD50: 7320 mg/kg 1/mtapertioneal (Ra, adult female) LD50: 15000 mg/kg diet, corresponding to 6-7 mg/kg b.w. Cortechedzen: Benornyl (a) precurer to carbendazim; ausosa dermal sensitization in humans. 1 The Pasticiose Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Prot Course of the Sensitive Sensitive Sensitive Course of the specified of currely as urican of Currick's oedena. 2 Cotty: 4 Hastoriazon 4-000 mg/kg b.w. Cooker and the specified of the pro		TOYICITY	IDDITATIO	ON		
TOXICITY IRRITATION	diuron				ved (not irritating)[1]	
TOXICITY Demail (rabbit) LD50: 690 mg/kg ^[2] Eye (rabbit): 0.59% non initiant Eye (rabbit): 5% conc moderate Eye adverse effect observed (irreversible damage)[1] Skin (rabbit): 500 mg/24 hours Skin (rabbit): 500 mg/24 hours Skin (rabbit): 500 mg/24 hours TOXICITY IRRITATION dermal (rat) LD50: 2000 mg/kg ^[2] Eye (rabbit): non-irritating * Oral (rat) LD50: 2000 mg/kg ^[2] Eye (rabbit): non-irritating * Skin: no adverse effect observed (irritating)[1] Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2: Value obtained from manufacturer's SDS. Unless otherw apecified data extracted from RTECS - Register of Toxic Effect of chemical Substances Note: Equivocal animal tumorigenic agent by RTECS criteria, NOTE: This substance may contain impurities (letrachlorazobenzene and tetrachlorazoxybenzene). Maximum impurity levels are proscribed under various jurisdictions ADI: 0.006 mg/kg/day NOEL: 0.625 mg/kg/day Intraperitoneal (Rat, adult male) LD50: 7320 mg/kg * Intraperitoneal (Rat, adult female) LD50: 15000 mg/kg * Inhalation LC50 (4 h) for rate rabbits, guinea pigs or cate no effect with suspension (10 gif water). NOEL (2 y) for dogs 300 mg/kg diet, corresponding to 6-7 mg/kg b.w. CARBENDAZIM CARBENDAZIM Intraperitoneal (Rat, adult male) LD50: 7320 mg/kg * Intraperitoneal (Rat, adult female) LD50: 15000 mg/kg * Inhalation LC50 (4 h) for rate rabbits, guinea pigs or cate no effect with suspension (10 gif water). NOEL (2 y) for dogs 300 mg/kg diet, corresponding to 6-7 mg/kg b.w. Oral productions on the material may result in a possible risk of inverses ble effects. Intraperitoneal (Rat, adult male) LD50: 7320 mg/kg * Intraperitoneal (Rat, adult female) LD50: 15000 mg/kg diet, corresponding to 6-7 mg/kg b.w. Oral productions of the material coase	ululul				***	
Dermal (rabbit) LD50: 890 mg/kg ^[2] Eye (rabbit): 0.5% non irritant Oral (rat) LD50: 550 mg/kg ^[2] Eye (rabbit): 45% conc CORROSIVE Eye (rabbit): 45% conc moderate Eye (rabbit): 55% conc modera		oral (rat) 2500. Tool mg/kg	OMII. IIO d	avoide ellect ebbei	Tod (not imating)	
2-octyl-4-isothiazolin-3-one 2-octy		TOXICITY	IRRITATION	N		
Eye (rabbit): 5% conc moderate Eye (rabbit): 500 conc moderate Eye (rabbit): 500 conc moderate Eye (rabbit): 500 mg SEVERE Eye: adverse effect observed (irreversible damage)!¹¹ Skin (rabbit): 500 mg/24 hours Skin: adverse effect observed (corrosive)!¹¹ Skin: adverse effect observed (corrosive)!¹¹ Skin: adverse effect observed (corrosive)!¹¹ TOXICITY dermal (rat) LD50: 2000 mg/kg²² Eye: no adverse effect observed (irritating)!¹¹ Skin: no adverse effect observed (not irritating)!¹¹ Legend: 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 DIURON Note: Equivocal animal tumorigenic agent by RTECS criteria. NOTE: This substance may contain impurities (tetrachiorazzony)enzane). Maximum impurity levels are proscribed under various jurisdictions ADI: 0.006 mg/kg/day NOEL: 0.625 mg/kg/significant acute toxicological data identified in literature search. CARBENDAZIM		Dermal (rabbit) LD50: 690 mg/kg ^[2]	Eye (rabbit):	: 0.5% non irritant		
Eye(rabbit): 100 mg SEVERE		Oral (rat) LD50: 550 mg/kg ^[2]	Eye (rabbit):	: 45% conc CORRO	SIVE	
Eye: adverse effect observed (irreversible damage) ^[1] Skin (rabbit): 500 mg/24 hours Skin: adverse effect observed (corrosive) ^[1] Skin: adverse effect observed (corrosive) ^[1] Skin: adverse effect observed (corrosive) ^[1] TOXICITY dermal (rat) LD50: 2000 mg/kg ^[2] Oral (rat) LD50: >5050 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2: Value obtained from manufacturer's SDS. Unless others specified data extracted from RTECS - Register of Toxic Effect of chemical Substances DIURON Note: Equivocal animal tumorigenic agent by RTECS criteria. NOTE: This substance may contain impurities (tetrachiorazobenzene and tetrachiorazobenzene). Maximum impurity levels are proscribed under various jurisdictions ADI: 0.006 mg/kg/day NOEL: 0.625 mg/kg/significant acute toxicological data identified in literature search. CARBENDAZIM CARBEND			Eye (rabbit):	: 5% conc moderate		
Eye: adverse effect observed (irreversible damage) ^[1] Skin (rabbit): 45% conc SEVERE Skin (rabbit): 500 mg/22 hours Skin: adverse effect observed (corrosive) ^[1] Skin: adverse effect observed (corrosive) ^[1] Skin: adverse effect observed (corrosive) ^[1] Skin: adverse effect observed (irritating) ^[1] TOXICITY dermal (rat) LD50: 2000 mg/kg ^[2] Poral (rat) LD50: 2000 mg/kg ^[2] Fey: no adverse effect observed (not irritating) ^[1] Skin (rabbit): non-irritating * Skin: no adverse effect observed (not irritating) ^[1] Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherways proceedings of the attracted from RTECS - Register of Toxic Effect of chemical Substances DIURON Note: Equivocal animal tumorigenic agent by RTECS criteria. NOTE: This substance may contain impurities (tetrachlorazobenzene and tetrachlorazozobenzene). Maximum impurity levels are proscribed under various jurisdictions ADI: 0.006 mg/kg/day NOEL: 0.625 mg/kg/significant acute toxicological data identified in literature search. ACARBENDAZIM CARBENDAZIM CA	2-octyl-4-isothiazolin-3-one		Eye(rabbit):	100 mg SEVERE		
Skin: adverse effect observed (corrosive) ^[1] Skin: adverse effect observed (corrosive) ^[1] Skin: adverse effect observed (irritating) ^[1] TOXICITY dermal (rat) LD50: 2000 mg/kg ^[2] Pye (rabbit): non-irritating * Oral (rat) LD50: >5050 mg/kg ^[2] Eye: no adverse effect observed (intritating) ^[1] Skin: no adverse effect observed (intritating) ^[1] Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2: *Value obtained from manufacturer's SDS. Unless otherw specified data extracted from RTECS - Register of Toxic Effect of chemical Substances DIURON Note: Equivocal animal tumorigenic agent by RTECS criteria. NOTE: This substance may contain impurities (tetrachlorazobenzene and tetrachloroazoxybenzene). Maximum impurity levels are proscribed under various jurisdictions ADI: 0.006 mg/kg/day NOEL: 0.625 mg/kg/dsylinicani acute toxicological data identified in literature search. ROHM & HAAS Data ADI: 0.03 mg/kg/day NOEL: 60 mg/kg/day Intraperitoneal (Rat, adult male) LD50: 7320 mg/kg * Intraperitoneal (Rat, adult female) LD50: 15000 mg/kg * Inhalation LC50 (4 h) for rats rabbits, guinea pigs or cats no effect with suspension (10 gl water). NOEL (2 y) for dogs 300 mg/kg diet, corresponding to 6-7 mg/kg b.w. 0.01 mg/kg b.w. Toxicity Class WHO III:EPA IV. EXPOSURE to the material may result in a possible risk of irreversible effects. for cathendazim: Benomyl (a precursor to carbendazim) causes dermal sensitization in humans. 1. *The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Prot Council] Asthma-like symptoms may continue for months or even years after exposure to the material ceases. The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urricaria or Quincke's oedema.	2-0cty1-4-130tma20m1-3-0nc		Eye: advers	e effect observed (in	reversible damage) ^[1]	
Skin: adverse effect observed (corrosive) ^[1] Skin: adverse effect observed (irritating) ^[1] Skin: adverse effect observed (irritating) ^[1] TOXICITY			Skin (rabbit)): 45% conc SEVER	E	
TOXICITY IRRITATION			Skin (rabbit)): 500 mg/24 hours		
carbendazim carbendazim: carbendazim carbendazim: carbendazim carbendazim carbendazim: ca			Skin: advers	se effect observed (corrosive) ^[1]	
dermal (rat) LD50: 2000 mg/kg ^[2] Dral (rat) LD50: >5050 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): non-irritating * Skin: no adverse effect observed (not irritating) ^[1] 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherw specified data extracted from RTECS - Register of Toxic Effect of chemical Substances Note: Equivocal animal tumorigenic agent by RTECS criteria. NOTE: This substance may contain impurities (tetrachlorazobenzene and tetrachloroazoxybenzene). Maximum impurity levels are proscribed under various jurisdictions ADI: 0.006 mg/kg/day NOEL: 0.625 mg/kg/significant acute toxicological data identified in literature search. ROHM & HAAS Data ADI: 0.03 mg/kg/day NOEL: 60 mg/kg/day Intraperitoneal (Rat, adult male) LD50: 7320 mg/kg * Intraperitoneal (Rat, adult female) LD50: 15000 mg/kg * Inhalation LC50 (4 h) for rats rabbits, guinea pigs or cats no effect with suspension (10 g/l water). NOEL (2 y) for dogs 300 mg/kg diet, corresponding to 6-7 mg/kg b.w. 0.01 mg/kg b.w. Toxicity Class WHO III.EPA IV Exposure to the material may result in a possible risk of irreversible effects. for carbendazim: Benomyl (a precursor to carbendazim) causes dermal sensitization in humans. I * The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Prot Council] Asthma-like symptoms may continue for months or even years after exposure to the material ceases. The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema.			Skin: advers	se effect observed (i	rritating) ^[1]	
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CARBENDAZIM CARBE						
Skin (rabbit): non-irritating *	carbendazim			· -	ed (not irritating)[1]	
Legend: 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 Note: Equivocal animal tumorigenic agent by RTECS criteria. NOTE: This substance may contain impurities (tetrachlorazobenzene and tetrachloroazoxybenzene). Maximum impurity levels are proscribed under various jurisdictions ADI: 0.006 mg/kg/day NOEL: 0.625 mg/kg/ds significant acute toxicological data identified in literature search. ROHM & HAAS Data ADI: 0.03 mg/kg/day NOEL: 60 mg/kg/day Intraperitoneal (Rat, adult male) LD50: 7320 mg/kg * Intraperitoneal (Rat, adult female) LD50: 15000 mg/kg * Inhalation LC50 (4 h) for rate rabbits, guinea pigs or cats no effect with suspension (10 g/l water). NOEL (2 y) for dogs 300 mg/kg diet, corresponding to 6-7 mg/kg b.w. 0.01 mg/kg b.w. Toxicity Class WHO III;EPA IV Exposure to the material may result in a possible risk of irreversible effects. for carbendazim: Benomyl (a precursor to carbendazim) causes dermal sensitization in humans. [**The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Protocontact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. RESENE MOULDEFENDER & Diurgn is absorbed readily through the gut and lungs while untake through the skin is more limited.		oral (ray 2200) rooss mg/ng			a (not initiality)	
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A-ISOTHIAZOLIN-3-ONE ROHM & HAAS Data ADI: 0.03 mg/kg/day NOEL: 60 mg/kg/day Intraperitoneal (Rat, adult male) LD50: 7320 mg/kg * Intraperitoneal (Rat, adult female) LD50: 15000 mg/kg * Inhalation LC50 (4 h) for rats rabbits, guinea pigs or cats no effect with suspension (10 g/l water). NOEL (2 y) for dogs 300 mg/kg diet, corresponding to 6-7 mg/kg b.w. 0.01 mg/kg b.w. Toxicity Class WHO III;EPA IV Exposure to the material may result in a possible risk of irreversible effects. for carbendazim: Benomyl (a precursor to carbendazim) causes dermal sensitization in humans. [*The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Prot Council] Asthma-like symptoms may continue for months or even years after exposure to the material ceases. The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema.	DIURON	tetrachloroazoxybenzene). Maximum impurity lev	els are proscribed und			
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Diuron is absorbed readily through the gut and lungs while uptake through the skin is more limited	2-OCTYL-	The following information refers to contact allerge	The following information refers to contact allergens as a group and may not be specific to this product.			
DIURON	RESENE MOULDEFENDER & DIURON	Diuron is absorbed readily through the gut and lu	ings while uptake throu	gh the skin is more	limited.	

V

Reproductivity

STOT - Single Exposure

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Respiratory or Skin sensitisation

Mutagenicity

Aspiration Hazard

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

FORME MOUN DEFENDED	ENDPOINT	TEST DURATION (HR)		SPECIES	VALUE		SOURCE
ESENE MOULDEFENDER	Not Available	Not Available		Not Available	Not Avail	Not Available Not	
	ENDPOINT	TEST DURATION (HR)	SPECIES		V	ALUE	SOURCE
	LC50	96	Fish		0	.5mg/L	4
diuron	EC50	48	Crustacea		1	.4mg/L	2
diuron	EC50	72	Algae or o	ther aquatic plants	0	.00055mg/L	4
	BCF	792	Algae or o	ther aquatic plants	0	.159mg/L	4
	NOEC	336	Algae or o	ther aquatic plants	0	.0000005mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIE	ES		VALUE	SOURCE
	LC50	96	Fish	Fish		0.047mg/L	4
and discould be all to the control	EC50	48	Crustac	cea		0.18mg/L	4
octyl-4-isothiazolin-3-one	EC50	96	Algae o	or other aquatic plants	3	0.146mg/L	3
	BCF	1608	Fish			0.05mg/L	4
	NOEC	504	Crustac	cea		0.035mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	S		VALUE	SOURCE
	LC50	96	Fish	Fish		0.007mg/L	4
carbendazim	EC50	48	Crustace	Crustacea		0.02mg/L	4
	EC50	96	Algae or	Algae or other aquatic plants		3.945mg/L	3
	NOEC	480	Crustace	a		<0.0031mg/L	4
Legend:	Extracted from 1	IUCLID Toxicity Data 2. Europe E	CHA Registered S	Substances - Ecotoxi	cological Inforr	nation - Aquatio	Toxicity 3 FPIWIN

Very 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.

Toxic to soil organisms.

Diuron is a systemic substituted phenylurea herbicide.

The isothiazolinones are very toxic to marine organisms (fish, Daphnia magna and algae)

The high water solubility and low log Kow values of several chlorinated and non-chlorinated indicate a low potential for bioaccumulation.

for carbendazim:

Kow 24 (pH 5), 32 (pH 7), 31 (pH 9): separate study gives 36 (pH 5), 59 (pH 7).

DO NOT discharge into sewer or waterways

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
diuron	HIGH	HIGH
2-octyl-4-isothiazolin-3-one	HIGH	HIGH
carbendazim	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
diuron	LOW (BCF = 14)
2-octyl-4-isothiazolin-3-one	LOW (LogKOW = 2.561)
carbendazim	LOW (BCF = 3.5)

Mobility in soil

Ingredient	Mobility
diuron	LOW (KOC = 136)
2-octyl-4-isothiazolin-3-one	LOW (KOC = 2120)
carbendazim	LOW (KOC = 175.8)

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SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal

▶ 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.
- ▶ Recycle wherever possible or consult manufacturer for recycling options.

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.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package.

In some areas, certain wastes must be tracked.

A hierarchy of controls seems to be common- the user should investigate:

Reduction, reuse, recycling, disposal (if all else fails). This material may be recycled if unused, or if it has not been contaminated to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

Do not allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.

Dispose of by: burial in a landfill specifically licenced to accept chemical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

SECTION 14 TRANSPORT INFORMATION

Labels Required



Marine Pollutant



•3Z

HAZCHEM

Land transport (UN)

UN number	3082	
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains carbendazim, diuron and 2-octyl-4-isothiazolin-3-one)	
Transport hazard class(es)	Class 9 Subrisk Not Applicable	
Packing group	III	
Environmental hazard	Environmentally hazardous	
Special precautions for user	Special provisions 274; 331; 335; 375 Limited quantity 5 L	

Air transport (ICAO-IATA / DGR)

UN number	3082	
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. * (contains carbendazim, diuron and 2-octyl-4-isothiazolin-3-one)	
Transport hazard class(es)	ICAO/IATA Class 9 ICAO / IATA Subrisk Not Applicable ERG Code 9L	
Packing group	III	
Environmental hazard	Environmentally hazardous	

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	Special provisions	A97 A158 A197
	Cargo Only Packing Instructions	964
	Cargo Only Maximum Qty / Pack	450 L
Special precautions for user	Passenger and Cargo Packing Instructions	964
	Passenger and Cargo Maximum Qty / Pack	450 L
	Passenger and Cargo Limited Quantity Packing Instructions	Y964
	Passenger and Cargo Limited Maximum Qty / Pack	30 kg G

Sea transport (IMDG-Code / GGVSee)

UN number	3082	
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains carbendazim, diuron and 2-octyl-4-isothiazolin-3-one)	
Transport hazard class(es)	IMDG Class 9 IMDG Subrisk Not Applicable	
Packing group	III.	
Environmental hazard	Marine Pollutant	
Special precautions for user	EMS Number F-A , S-F Special provisions 274 335 969 Limited Quantities 5 L	

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

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002531	Cleaning Products (Toxic [6.7]) Group Standard 2017

DIURON 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)
New Zealand Workplace Exposure Standards (WES)

2-OCTYL-4-ISOTHIAZOLIN-3-ONE IS FOUND ON THE FOLLOWING REGULATORY LISTS

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)

CARBENDAZIM 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)

Hazardous Substance Location

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

Hazard Class	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers
Not Applicable	Not Applicable	Not Applicable

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
9.1A, 9.2A, 9.3A, and 9.4A	Any quantity

Refer Group Standards for further information

Tracking Requirements

Not Applicable

National Inventory Status

Additional inventory status	
National Inventory	Status

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Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (diuron; 2-octyl-4-isothiazolin-3-one; carbendazim)
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 - ARIPS	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 and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Revision Date	26/06/2020
Initial Date	26/06/2020

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

OSF: Odour Safety Factor

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

TLV: Threshold Limit Value

LOD: Limit Of Detection OTV: Odour Threshold Value

BCF: BioConcentration Factors BEI: Biological Exposure Index

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