

CRC 5070 Aeroclean 400g Aerosol (NZ) CRC Industries (CRC Industries New Zealand)

Chemwatch: 4546-45

Version No: 11.1

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

Chemwatch Hazard Alert Code: 2

Issue Date: 10/12/2021 Print Date: 24/11/2024 S.GHS.NZL.EN

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

Product Identifier

Product name	CRC 5070 Aeroclean 400g Aerosol (NZ)
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	AEROSOLS
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses	Engine degreaser. Application is by spray atomisation from a hand held aerosol pack
	Use according to manufacturer's directions.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	CRC Industries (CRC Industries New Zealand)	
Address	10 Highbrook Drive East Tamaki Auckland New Zealand	
Telephone	+64 9 272 2700	
Fax	+64 9 274 9696	
Website	www.crc.co.nz	
Email	- No EMAL ID NEEDED for NZ - JACK	

Emergency telephone number

Association / Organisation	CRC Industries (CRC Industries New Zealand)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone number(s)	NZ Poisons Centre 0800 POISON (0800 764 766)	+64 800 700 112
Other emergency telephone number(s)	111 (NZ Emergency Services)	+61 3 9573 3188

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

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification ^[1]	Aerosols, Hazard Category 1, Acute Toxicity (Oral) Category 4, Aspiration Hazard Category 1, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Reproductive Toxicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	2.1.2A, 6.1D (oral), 6.1E (aspiration), 6.3A, 6.4A, 6.8B, 6.9B (narcotic effects), 9.1B



Signal word Danger

Hazard statement(s)

H222+H229	Extremely flammable aerosol. Pressurized container: may burst if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
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.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.

Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.	
P331	Do NOT induce vomiting. If more than 15 mins from Doctor, INDUCE VOMITING (if conscious).	
P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	

Precautionary statement(s) Storage

P405	Store locked up.	
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

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
Not Available	>60	mineral turpentine
127087-87-0	<5	4-nonylphenol, branched, ethoxylated
8002-09-3	<1	pine oil
124-38-9	1-9	carbon dioxide
Not Available		NOTE: Manufacturer has supplied full ingredient
Not Available		information to allow CHEMWATCH assessment.
Legend:	,	h; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No Slassification drawn from C&L * EU IOELVs available

Description of first aid measures

escription of first aid me	asures
Eye Contact	 If aerosols come in contact with the eyes: Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes 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. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If solids or aerosol mists are deposited upon the skin: Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. Seek medical attention in the event of irritation.
Inhalation	 If aerosols, fumes or combustion products are inhaled: Remove to fresh air. 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. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 Avoid giving milk or oils. Avoid giving alcohol. Not considered a normal route of entry.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxicology]

SECTION 5 Firefighting measures

Extinguishing media

SMALL FIRE:

Water spray, dry chemical or CO2

LARGE FIRE:

Water spray or fog.

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			
	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. 		
Fire Fighting	 Wear breathing apparatus plus protective gloves. 		

	Prevent, by any means available, spillage from entering drains or water course.
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- Liquid and vapour are highly flammable.
 - Severe fire hazard when exposed to heat or flame.
 - Vapour forms an explosive mixture with air.
 - Severe explosion hazard, in the form of vapour, when exposed to flame or spark.
- Fire/Explosion Hazard
 - carbon monoxide (CO) carbon dioxide (CO2)
 - other pyrolysis products typical of burning organic material.
 - **Contains low boiling substance:** Closed containers may rupture due to pressure buildup under fire conditions. May emit clouds of acrid smoke

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	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Wear protective clothing, impervious gloves and safety glasses. Shut off all possible sources of ignition and increase ventilation.
Major Spills	 DO NOT exert excessive pressure on valve; DO NOTattempt to operate damaged valve. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Remove leaking cylinders to a safe place if possible. Release pressure under safe, controlled conditions by opening the valve.

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	 DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.
Other information	 Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed.

Conditions for safe storage, including any incompatibilities

Suitable container	 Aerosol dispenser. Check that containers are clearly labelled.
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)	carbon dioxide Carbon dioxide 5000 ppm / 9000 mg/m3		54000 mg/m3 / 30000 ppm	Not Available	Not Available	
Ingredient	Original IDLH			Revised IDLH		
•						
mineral turpentine	Not Available			Not Available		
4-nonylphenol, branched, ethoxylated	Not Available		Not Available			
pine oil	Not Available	Not Available		Not Available		
carbon dioxide	40,000 ppm			Not Available		

Occupational Exposure Banding Occupational Exposure Band Rating Occupational Exposure Band Limit Ingredient Occupational Exposure Band Rating Occupational Exposure Band Limit mineral turpentine 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.

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
4-nonylphenol, branched, ethoxylated	E	≤ 0.1 ppm
pine oil	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.	

Exposure 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. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to Appropriate engineering provide this high level of protection. controls The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Individual protection measures, such as personal protective equipment No special equipment for minor exposure i.e. when handling small quantities. • OTHERWISE: For potentially moderate or heavy exposures: Eye and face protection Safety glasses with side shields. • NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them. Skin protection See Hand protection below No special equipment needed when handling small quantities. ▶ OTHERWISE[.] For potentially moderate exposures: Hands/feet protection Wear general protective gloves, eg. light weight rubber gloves. For potentially heavy exposures: Wear chemical protective gloves, eg. PVC. and safety footwear. **Body protection** See Other protection below No special equipment needed when handling small quantities. OTHERWISE: Overalls. Skin cleansing cream. Eyewash unit. Other protection • The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton. Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost. BRETHERICK: Handbook of Reactive Chemical Hazards.

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class1 P2	-
up to 50	1000	-	A-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	A-2 P2
up to 100	10000	-	A-3 P2
100+			Airline**

* - Continuous Flow ** - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.

The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of

cartridge respirators is considered appropriate.

• Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance Clear flammable liquid with a petroleum odour; not miscible with water. Supplied as an aerosol pack. Contents under PRESSURE. Contains carbon dioxide propellant.

Physical state	Liquid	Relative density (Water = 1)	0.825
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	550
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	104	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	36	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	20	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	2.0	Volatile Component (%vol)	91
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	>1	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
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	 Elevated temperatures. Presence of open flame. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.
	Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.
	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.
	Inhalation of toxic gases may cause: ▶ Central Nervous System effects including depression, headache, confusion, dizziness, stupor, coma and seizures;
	 respiratory: acute lung swellings, shortness of breath, wheezing, rapid breathing, other symptoms and respiratory arrest; heart: collapse, irregular heartbeats and cardiac arrest;

	gastrointestinal: irritation, ulcers, nausea and vomiting (may be Inhalation hazard is increased at higher temperatures. Inhaling high concentrations of mixed hydrocarbons can cause in molecular weight (C2-C12) hydrocarbons can irritate mucous me confusion, headache, appetite loss, drowsiness, tremors and stup Central nervous system (CNS) depression may include general of nausea, anaesthetic effects, slowed reaction time, slurred speech may result in respiratory depression and may be fatal. Exposure to white spirit may cause nausea and vertigo. Material is highly volatile and may quickly form a concentrated at displace and replace air in breathing zone, acting as a simple as Symptoms of asphyxia (suffocation) may include headache, dizzi ringing in the ears. If the asphyxia is allowed to progress, there in unconsciousness and, finally, convulsions, coma and death. WARNING:Intentional misuse by concentrating/inhaling contents	arcosis, with nausea, vomiting and lightheadedness. Low embranes and cause incoordination, giddiness, nausea, vertigo, por. discomfort, symptoms of giddiness, headache, dizziness, h and may progress to unconsciousness. Serious poisonings tmosphere in confined or unventilated areas. The vapour may phyxiant. This may happen with little warning of overexposure. iness, shortness of breath, muscular weakness, drowsiness and nay be nausea and vomiting, further physical weakness and
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with result. (ICSC13733) Accidental ingestion of the material may be damaging to the heat Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial env Ingestion of petroleum hydrocarbons can irritate the pharynx, oes ulcers of the mucous. Symptoms include a burning mouth and th weakness, dizziness, slow and shallow breathing, abdominal swe	Ith of the individual. vironments sophagus, stomach and small intestine, and cause swellings and roat; larger amounts can cause nausea and vomiting, narcosis,
Skin Contact	The material may cause moderate inflammation of the skin either exposure can cause contact dermatitis which is characterised by Repeated exposure may cause skin cracking, flaking or drying fo Skin contact with the material may damage the health of the indiv Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be exposed to this Aromatic hydrocarbons may produce sensitivity and redness of the the skin but branched species are more likely to.	redness, swelling and blistering. Illowing normal handling and use. Vidual; systemic effects may result following absorption. s material
Eye	There is some evidence that material may produce eye irritation i after instillation. Severe inflammation may be expected with redn Not considered to be a risk because of the extreme volatility of th Direct eye contact with petroleum hydrocarbons can be painful, a Aromatic species can cause irritation and excessive tear secretion	ess. ne gas. and the corneal epithelium may be temporarily damaged.
Chronic	Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. This material can be regarded as being able to cause cancer in humans based on experiments and other information. Based on experience with similar materials, there is a possibility that exposure to the material may reduce fertility in humans at levels which do not cause other toxic effects. Main route of exposure to the gas in the workplace is by inhalation. Constant or exposure to ver long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin. Immersion of the hands and forearms in white spirits may quickly result in inflammation of the skin and follicles. Workers exposed to white spirit have reported nausea and vomiting and one worker has been reported to develop aplastic anaemia, bone marrow depression and this person later died from septicaemia. Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
CRC 5070 Aeroclean 400g Aerosol (NZ)	Not Available	Not Available
mineral turpentine	TOXICITY Not Available	IRRITATION Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
4-nonylphenol, branched,	Oral (Rat) LD50: 1310 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]
ethoxylated		Eye: no adverse effect observed (not irritating) ^[1]
		Skin: no adverse effect observed (not irritating) ^[1]

pine oil

TOXICITY

TOXICITY

Dermal (rabbit) LD50: 5000 mg/kg^[2]

Oral (Rat) LD50: 3200 mg/kg^[2]

Inhalation (Rat) LC50: >3.79 mg/L4h^[2]

carbon dioxide

IRRITATION

IRRITATION

Skin (Rodent - rabbit): 500mg/24H - Severe

4-NONYLPHENOL, BRANCHED, ETHOXYLATED ETHOXYLATED PINE OIL PINE OIL PINE OIL FOR Anio Sent Hur Hor Hor Hor Hor Hor Hor Hor Hor Hor Ho	Inless otherwise specified data extracted r linear material: Maternal effects, effects or nonylphenol and its compounds: kylphenols like nonylphenol and bisphen strogenic substances and other endocrin imans. Xenoestrogens usually function b objethers (such as ethoxylated surfactant en form complex mixtures of oxidation pr himal testing reveals that whole the pure, ensitisers. The oxidization products also of umans have regular contact with alcohol etergents and other cleaning products. Es e skin or eyes. Studies of acute toxicity so to death due to poisoning with alcohol etho th laboratory and animal testing has sho utations or cancer. No adverse reproduci i-ethylene glycol ethers undergo enzyma poses, they may cause depressed reflexes himal. or nonylphenol: himal testing suggests that repeated expl as not found to cause mutations or chron the following information refers to contact	the one of the set of
4-NONYLPHENOL, BRANCHED, ETHOXYLATED 0 000 0 000	or nonylphenol and its compounds: kylphenols like nonylphenol and bisphen strogenic substances and other endocrin imans. Xenoestrogens usually function b olyethers (such as ethoxylated surfactant en form complex mixtures of oxidation pr nimal testing reveals that whole the pure, insitisers. The oxidization products also of umans have regular contact with alcohol tergents and other cleaning products. Ex- e skin or eyes. Studies of acute toxicity so to death due to poisoning with alcohol etho th laboratory and animal testing has sho utations or cancer. No adverse reproduct i-ethylene glycol ethers undergo enzyma isses, they may cause depressed reflexes inmal. or nonylphenol: nimal testing suggests that repeated expl as not found to cause mutations or chron the following information refers to contact	the one of the set of
PINE OIL FINE FINE FINE FINE FINE FINE FINE FINE	as not found to cause mutations or chron e following information refers to contact	nosomal aberrations.
For prev anti sen Pre The	in reactions, e.g. contact urticaria, involventified in literature search. Limonene is readily absorbed by inhalatinalation. It is rapidly distributed to different monene shows low acute toxicity by all the mans. amphor appears to have moderate acute mphysema. There is no observed tumour evelopmental toxicity studies, it demonstrate terpenoid hydrocarbons are found in reaction. They are ecreted in the urine. They creased rates of kidney cancer. For terpenoid tertiary alcohols and their release substances are metabolised in the lachanged. They have low short term toxic use dose dependent harm to both the for diverse reactions to fragrances in perfume rematitis, sensitivity to light, immediate commatities occurs. Contact allergy is a life to esvere and widespread, with significant the perfume contains a sensitizing fragrant a chemical that itself causes little or no sixidation in air or reaction with light) with or prehaptens, it is possible to prevent and evention of air exposure during handling thoxidants. When antioxidants are used, ensitisers. The hater and cause severe skin irritativelling, the production of vesicles, scaling velocition of vesicles, scaling vel	needle trees and deciduous plants. This category of chemicals shows very low acute y are unlikely to cause genetic damage, but animal testing shows that they do cause lated esters: iver and excreted primarily in the urine and faeces. A portion is also excreted city when ingested or applied on the skin. However, repeated and long term use may netus and mother. es and fragranced cosmetic products include allergic contact dermatitis, irritant contact contact reactions, and pigmented contact dermatitis. Airborne and connubial contact ong condition, so symptoms may occur on re-exposure. Allergic contact dermatitis can t impairment of quality of life and potential consequences for fitness for work. onent, intolerance to perfumes by inhalation may occur. a re small molecules that cause an immune reaction only when attached to a carrier nec chemicals are directly reactive, but some require previous activation. A prehapten sensitization, but it is transformed into a hapten outside the skin by a chemical reaction
CRC 5070 Aeroclean 400g Aerosol (NZ) & MINERAL TURPENTINE	velling, the production of vesicles, scaling irad etroleum contains aromatic (benzene, tol sult in many detrimental health effects, ir nimal testing shows breathing in petroleu levant in humans. Similarly, exposure to imans is questionable. ost studies involving gasoline have show iman subjects (such as in petrol service)	g and thickening of the skin. Repeated exposures may produce severe ulceration. uene, ethyl benzene, napthalene) and aliphatic hydrocarbons (n-hexane), which can ncluding, cancer, tumour formation, hearing loss, and nervous system toxicity. Im causes tumours of the liver and kidney; these are however not considered to be gasoline over a lifetime can cause kidney cancer in animals, but the relevance in In that gasoline does not cause genetic mutation, including all recent studies in living

by other materials.

CRC 5070 Aeroclean 400g Aerosol (NZ) & MINERAL **TURPENTINE & 4-**NONYLPHENOL, BRANCHED, ETHOXYLATED

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	¥
Serious Eye Damage/Irritation	×	STOT - Single Exposure	*
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	✓

Data available to make classification

SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species	Value	Source
CRC 5070 Aeroclean 400g Aerosol (NZ)	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
mineral turpentine	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	96h	Algae or other aquatic plants	12mg/l	2
-nonylphenol, branched,	EC50	72h	Algae or other aquatic plants	19.485mg/l	2
ethoxylated	NOEC(ECx)	96h	Algae or other aquatic plants	8mg/l	2
	EC50	48h	Crustacea	14mg/l	2
	LC50	96h	Fish	>10mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	15.3- 25.2mg/L	4
pine oil	EC50(ECx)	48h	Crustacea	15.3- 25.2mg/L	4
	LC50	96h	Fish	14.4- 18.9mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
carbon dioxide	LC50	96h	Fish	35mg/l	1
Legend:	Extracted from	1 IIICI ID Toxioity Data 2 Europa	ECHA Registered Substances - Ecotoxicologica	al Information - Aque	atic Toxic

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. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

For carbon dioxide:

Environmental Fate: Carbon dioxide in earth's atmosphere is considered a trace gas. There are seasonal fluctuations of atmospheric concentrations of carbon dioxide primarily due to CO2 absorbed during seasonal plant growth. Due to human activities such as the combustion of fossil fuels and deforestation, the concentration of atmospheric carbon dioxide has increased by about 35% since preindustrial times. Carbon dissolved in the oceans is about 50 times greater than CO2 found in the atmosphere.

For Hydrocarbons: log Kow 1. BCF~10. For Aromatics: log Kow 2-3. BCF 20-200.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil Persistence: Air	
carbon dioxide	LOW	LOW
Bioaccumulative potential		
Ingredient	Bioaccumulation	
4-nonylphenol, branched, ethoxylated	MEDIUM (LogKOW = 4.33)	
pine oil	LOW (LogKOW = 2.69)	
carbon dioxide	LOW (LogKOW = 0.83)	

Mobility in soil

Ingredient	Mobility
carbon dioxide	HIGH (Log KOC = 1.498)

SECTION 13 Disposal considerations

Waste treatment methods

	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. 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)
Product / Packaging	This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.
disposal	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.
	Where in doubt contact the responsible authority.
	 Consult State Land Waste Management Authority for disposal.
	 Discharge contents of damaged aerosol cans at an approved site.
	Allow small quantities to evaporate.
	DO NOT incinerate or puncture aerosol cans.

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. 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 HAZCHEM Not Applicable

14.1. UN number or ID number	1950	
14.2. UN proper shipping name	AEROSOLS	
	Class	2.1

14.3. Transport hazard class(es)	Subsidiary Hazard Not Applicable	
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Environmentally hazardous	
14.6. Special precautions for user	Special provisions 63; 190; 277; 327; 344; 381 Limited quantity 1000ml	

Air transport (ICAO-IATA / DGR)

	1050			
14.1. UN number	1950			
14.2. UN proper shipping name	Aerosols, flammable (engine starting fluid)			
	ICAO/IATA Class 2.1			
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
class(es)	ERG Code	ode 10L		
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Environmentally hazardous			
	Special provisions		A1 A145 A167 A802	
	Cargo Only Packing Instructions		203	
14.6. Special precautions for user	Cargo Only Maximum Qty / Pack		150 kg	
	Passenger and Cargo Packing Instructions		Forbidden	
	Passenger and Cargo Maximum Qty / Pack		Forbidden	
	Passenger and Cargo Limited Quantity Packing Instructions		Forbidden	
	Passenger and Cargo Limited Maximum Qty / Pack		Forbidden	

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1950	1950	
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Ha	2.1 azard Not Applicable	
14.4. Packing group	Not Applicable		
14.5 Environmental hazard	Marine Pollutant		
14.6. Special precautions for user	EMS Number Special provisions Limited Quantities	F-D , S-U 63 190 277 327 344 381 959 1000 ml	

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
mineral turpentine	Not Available
4-nonylphenol, branched, ethoxylated	Not Available
pine oil	Not Available
carbon dioxide	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
mineral turpentine	Not Available
4-nonylphenol, branched, ethoxylated	Not Available

Product name	Ship Type
pine oil	Not Available
carbon dioxide	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	
HSR002515	Aerosols (Flammable) Group Standard 2017	

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

mineral turpentine 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
4-nonylphenol, branched, ethoxylated is found on the following regulatory lists
Chemical Footprint Project - Chemicals of High Concern List
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
pine oil 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)

carbon dioxide is found on the following regulatory lists

FEI Equine Prohibited Substances List - Controlled Medication

FEI Equine Prohibited Substances List (EPSL)

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)	
2.1.2A	3 000 L (aggregate water capacity)	3 000 L (aggregate water capacity)	

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
2.1.2A				1L (aggregate water capacity)

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Chalua	
National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (4-nonylphenol, branched, ethoxylated; pine oil; carbon dioxide)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (pine oil)	
Japan - ENCS	No (pine oil)	
Korea - KECI	Yes	
New Zealand - NZloC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
Legend:	Yes = All CAS declared ingredients are on the inventory gend: No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	10/12/2021
Initial Date	12/11/2001

SDS Version Summary

Version	Date of Update	Sections Updated
10.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
11.1	10/12/2021	Classification change due to full database hazard calculation/update.

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit.
- IDLH: Immediately Dangerous to Life or Health Concentrations
- 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
- MARPOL: International Convention for the Prevention of Pollution from Ships
- IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code

- ▶ IBC: International Bulk Chemical Code
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- + EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIOC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- + FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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