#### **MSDS ATTACHMENT**

#### PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR:

PRODUCT:

**CRC 9302 MAG Wheel Cleaner Aerosol** 

DATE:

(MSDS date)

10/03/2023

1. Manufacturer/Supplier:

PPS Industries Limited

86 Hugo Johnston Drive, Auckland

New Zealand

P.O.Box 12823, Penrose, Auckland 1642

Phone: 64 9 579-1001 Facsimile: 64 9 579-9497

Emergency Phone: 0800 657-894 Website: www.ppsindustries.co.nz

**Emergency Information:** 

National Poison Centre

0800 764-766

Chemcall 24/7 Emergency Response Service :

0800 243-622

13. Disposal Considerations :

**Product** 

Recommendation - Consult local or national regulations to ensure proper disposal.

**Packaging** 

Disposal must be made according to official regulations.

16. Other Information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.



### CRC 9302 Mag Wheel Cleaner CRC Industries (CRC Industries New Zealand)

Chemwatch: 6636-45 Version No: 11.1

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

Chemwatch Hazard Alert Code: 5

Issue Date: 10/03/2023 Print Date: 18/04/2024

S.GHS.NZL.EN

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

#### **Product Identifier**

Product name

CRC 9302 Mag Wheel Cleaner

**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

Aerosol cleaning foam for automobile wheels.

The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.

Application is by spray atomisation from a hand held aerosol pack

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

Registered company name

CRC Industries (CRC Industries New Zealand)

CRC Industries (CRC Industries New Zealand)

Address Telephone PO Box 58 121 Greenmount Auckland New Zealand

10 Highbrook Drive East Tamaki Auckland New Zealand

Fax

Not Available

+64 9 272 2700 +64 9 274 9696

Website

Not Available
www.crc.co.nz

www.crc.co.nz

Email

hse@crcind.com

info.nz@crc.co.nz

#### **Emergency telephone number**

Association / Organisation

CRC Industries (CRC Industries New Zealand)

CHEMWATCH EMERGENCY RESPONSE (24/7)

Emergency telephone numbers

NZ Poisons Centre 0800 POISON (0800 764 766)

+64 800 700 112

Other emergency telephone numbers

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 Category 3, Skin Corrosion/Irritation Category 1C, Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, 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

8.2C, 8.3A, 6.9B (narcotic effects), 9.1B

#### Hazard pictogram(s)







#### Signal word

Danger

#### Hazard statement(s)

H229	Pressurised container: May burst if heated.
H314	Causes severe skin burns and eye damage.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

#### Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P260	Do not breathe mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.

#### Precautionary statement(s) Response

P301+P330+P331	IF SWALLOWED: Rinse mouth, Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.

#### 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
1344-09-8	0.5-3	sodium metasilicate
111-76-2	1-5	ethylene glycol monobutyl ether
9016-45-9	0.5-3	nonylphenol, ethoxylated
7732-18-5	70-90	water
68476-85-7.	10-30	hydrocarbon propellant
Legend:		ssification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No tion drawn from C&L * EU IOELVs available

#### **SECTION 4 First aid measures**

#### Description of first aid measures

**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.

If aerosols, fumes or combustion products are inhaled:

- Remove to fresh air.
- ▶ Lay patient down. Keep warm and rested.
- Inhalation
- 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.
- · Avoid giving milk or oils.
- Avoid giving alcohol.

Ingestion

Not considered a normal route of entry.

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

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 Firefighting measures**

#### Extinguishing media

#### SMALL FIRE:

Water spray, dry chemical or CO2

#### LARGE FIRE:

Water spray or fog.

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances

In such an event consider:

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

Fire/Explosion Hazard

- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- · Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- Non combustible.
- · Not considered to be a significant fire risk.
- Heating may cause expansion or decomposition leading to violent rupture of containers.
- Aerosol cans may explode on exposure to naked flames.

Other decomposition products include:

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.

#### **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

- · 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.
- Clean up all spills immediately.

- · Avoid breathing vapours and contact with skin and eyes.
- · Control personal contact with the substance, by using protective equipment.
- · Contain and absorb spill with sand, earth, inert material or vermiculite.
- 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.

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

#### **SECTION 7 Handling and storage**

**Major Spills** 

#### Precautions for safe handling

#### Safe handling

- · 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

#### 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)	ethylene glycol monobutyl ether	2-Butoxyethanol (Butyl glycol ether)	25 ppm / 121 mg/m3	Not Available	Not Available	(skin) - Skin absorption
New Zealand Workplace Exposure Standards (WES)	hydrocarbon propellant	LPG (Liquefied petroleum gas)	1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available

#### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2	TEEL-3
sodium metasilicate	5.9 mg/m3	65 mg/m3	390 mg/m3
ethylene glycol monobutyl ether	60 ppm	120 ppm	700 ppm
nonylphenol, ethoxylated	4.5 mg/m3	49 mg/m3	300 mg/m3
nonylphenol, ethoxylated	43 mg/m3	470 mg/m3	5,400 mg/m3
hydrocarbon propellant	65,000 ppm	2.30E+05 ppm	4.00E+05 ppm

Ingredient	Original IDLH	Revised IDLH
sodium metasilicate	Not Available	Not Available
ethylene glycol monobutyl ether	700 ppm	Not Available
nonylphenol, ethoxylated	Not Available	Not Available
water	Not Available	Not Available
hydrocarbon propellant	2,000 ppm	Not Available

#### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
sodium metasilicate	E	≤ 0.01 mg/m³
nonylphenol, ethoxylated	E	≤ 0.1 ppm
Notes:	Occupational exposure banding is a process of assign	ning chemicals into specific categories or bands based on a ch

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**

#### Appropriate engineering controls

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 provide this high level of protection.

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









Eye and face protection

- No special equipment for minor exposure i.e. when handling small quantities.
- OTHERWISE: For potentially moderate or heavy exposures:
- 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:
- · Wear general protective gloves, eg. light weight rubber gloves.
- For potentially heavy exposures:
- ▶ Wear chemical protective gloves, eg. PVC. and safety footwear.

**Body protection** 

Hands/feet protection

See Other protection below

No special equipment needed when handling small quantities.

#### OTHERWISE:

Other protection

- Overalls.
- Skin cleansing cream.
- Eyewash unit.

#### Recommended material(s)

#### **GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the:

#### "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

CRC 9302 Mag Wheel Cleaner

Material	CPI
BUTYL	Α
NEOPRENE	В
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NITRILE	С
PE/EVAL/PE	С
PVA	С
PVC	С
SARANEX-23	С
VITON	С

<sup>\*</sup> CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### Respiratory protection

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	AX-AUS / Class 1 P2	-	AX-PAPR-AUS / Class 1 P2
up to 25 x ES	Air-line*	AX-2 P2	AX-PAPR-2 P2
up to 50 x ES	-	AX-3 P2	
50+ x ES	-	Air-line**	T <u>.</u>

^ - Full-face

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)

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

#### Information on basic physical and chemical properties

Supplied as an aerosol pack. Contents under PRESSURE. Contains highly flammable hydrocarbon propellant.

Physical state Liquid Relative density (Wat	ter = 1) 1.05
Odour Not Available Partition coefficien octanol / w	Not Available
Odour threshold Not Available Auto-ignition tempera	(°C) Not Available
pH (as supplied) 11-12 Decompos temperature	Not Available
point (°C)  Not Available  Viscosity	(cSt) Not Available
tial boiling point and boiling range (°C)  Not Available  Molecular weight (g/	mol) Not Applicable
Flash point (°C) Not Applicable T	aste Not Available
Evaporation rate Not Available Explosive prope	rties Not Available
Flammability Not Applicable Oxidising prope	rties Not Available
r Explosive Limit (%) Not Available Surface Tension (dynormal control or ml	Not Available
r Explosive Limit (%) Not Available Volatile Component (%	(vol) Not Available
pour pressure (kPa) Not Available Gas gi	roup Not Available
Solubility in water Miscible pH as a solution	(1%) Not Available
oour density (Air = 1) Not Available VOC	g/L Not Available

#### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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**

#### In

Information on toxicologic	al 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 high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.  WARNING:Intentional misuse by concentrating/inhaling contents may be lethal.  The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.
Ingestion	Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments Ingestion may result in nausea, abdominal irritation, pain and vomiting
Skin Contact	Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be exposed to this material
Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons. Not considered to be a risk because of the extreme volatility of the gas.
Chronic	Main route of exposure to the gas in the workplace is by inhalation. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

CRC 9302 Mag Wheel Cleaner

TOXICITY

**IRRITATION** 

	Not Available	Not Available
1 00 10 10 10 10 10 10 10 10 10 10 10 10	TOXICITY	IRRITATION
	dermal (rat) LD50: >5000 mg/kg <sup>[1]</sup>	Skin (human): 250 mg/24h SEVERE
sodium metasilicate	Inhalation (Rat) LC50: >2.06 mg/l4h <sup>[1]</sup>	Skin (rabbit): 250 mg/24h SEVERE
	Oral (Rat) LD50: 1153 mg/kg <sup>[2]</sup>	
	TOXICITY	IRRITATION
	dermal (guinea pig) LD50: 210 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg SEVERE * [Union Carbide]
	Inhalation (Rat) LC50: 450 ppm4h <sup>[2]</sup>	Eye (rabbit): 100 mg/24h-moderate
ethylene glycol monobutyl ether	Oral (Rat) LD50: 250 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
Cilici		Skin (rabbit): 500 mg, open; mild
		Skin: adverse effect observed (irritating) <sup>[1]</sup>
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: 2943.2 mg/kg <sup>[2]</sup>	Eye (rabbit): 5 mg SEVERE
nonylphenol, ethoxylated	Oral (Rat) LD50: 1310 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
nonyiphenoi, ethoxylateu		Skin (human): 15 mg/3D mild
		Skin (rabbit): 500 mg mild
		Skin: adverse effect observed (irritating) <sup>[1]</sup>
	TOXICITY	IRRITATION
water	Oral (Rat) LD50: >90000 mg/kg <sup>[2]</sup>	Not Available
	TOXICITY	IRRITATION
hydrocarbon propellant	Inhalation (Rat) LC50: 658 mg/l4h <sup>[2]</sup>	Not Available
Legend:	Value obtained from Europe ECHA Registered Sub- Unless otherwise specified data extracted from RTEC	ostances - Acute toxicity 2. Value obtained from manufacturer's SDS. CS - Register of Toxic Effect of chemical Substances
	irritants may produce conjunctivitis.	ed contact causing inflammation. Repeated or prolonged exposure to ven years after exposure to the material ends. This may be due to a no

#### SODIUM METASILICATE

# allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.

NOTE: Changes in kidney, liver, spleen and lungs are observed in animals exposed to high concentrations of this substance by all routes. \*\* ASCC (NZ) SDS

For ethylene glycol monoalkyl ethers and their acetates (EGMAEs):

Typical members of this category are ethylene glycol propylene ether (EGPE), ethylene glycol butyl ether (EGBE) and ethylene glycol hexyl ether (EGHE) and their acetates.

EGMAEs are substrates for alcohol dehydrogenase isozyme ADH-3, which catalyzes the conversion of their terminal alcohols to aldehydes (which are transient metabolites). Further, rapid conversion of the aldehydes by aldehyde dehydrogenase produces alkoxyacetic acids, which are the predominant urinary metabolites of mono substituted glycol ethers.

Acute Toxicity: Oral LD50 values in rats for all category members range from 739 (EGHE) to 3089 mg/kg bw (EGPE), with values increasing with decreasing molecular weight. Four to six hour acute inhalation toxicity studies were conducted for these chemicals in rats at the highest vapour concentrations practically achievable. Values range from LC0 > 85 ppm (508 mg/m3) for

EGHE, LC50 > 400ppm (2620 mg/m3) for EGBEA to LC50 > 2132 ppm (9061 mg/m3) for EGPE.

Animal testing showed that exposure to ethylene glycol monobutyl ether resulted in toxicity to both the mother and the embryo. Reproductive effects were thought to be less than that of other monoalkyl ethers of ethylene glycol.

Chronic exposure may cause anaemia, with enlargement and fragility of red blood cells. It is thought that in animals butoxyethanol may cause generalized clotting and bone infarction. In animals, 2-butoxyethanol also increased the rate of some cancers, including liver cancer.

#### NONYLPHENOL, ETHOXYLATED

ETHYLENE GLYCOL

MONOBUTYL ETHER

For nonylphenol and its compounds:

Alkylphenols like nonylphenol and bisphenol A have estrogenic effects in the body. They are known as xenoestrogens. Estrogenic substances and other endocrine disruptors are compounds that have hormone-like effects in both wildlife and humans. Xenoestrogens usually function by binding to estrogen receptors and acting competitively against natural estrogens. Polyethers (such as ethoxylated surfactants and polyethylene glycols) are highly susceptible to being oxidized in the air. They then form complex mixtures of oxidation products.

Animal testing reveals that whole the pure, non-oxidised surfactant is non-sensitizing, many of the oxidation products are sensitisers. The oxidization products also cause irritation.

Humans have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, detergents and other cleaning products. Exposure to these chemicals can occur through swallowing, inhalation, or contact with the skin or eyes. Studies of acute toxicity show that relatively high volumes would have to occur to produce any toxic response. No death due to poisoning with alcohol ethoxylates has ever been reported.

Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations or cancer. No adverse reproductive or developmental effects were observed.

Tri-ethylene glycol ethers undergo enzymatic oxidation to toxic alkoxy acids. They may irritate the skin and the eyes. At high oral doses, they may cause depressed reflexes, flaccid muscle tone, breathing difficulty and coma. Death may result in experimental animal

#### For nonylphenol:

Animal testing suggests that repeated exposure to nonylphenol may cause liver changes and kidney dysfunction. Nonylphenol was not found to cause mutations or chromosomal aberrations.

#### HYDROCARBON PROPELLANT

inhalation of the gas

## SODIUM METASILICATE & ETHYLENE GLYCOL MONOBUTYL ETHER & NONYLPHENOL, ETHOXYLATED

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.

#### ETHYLENE GLYCOL MONOBUTYL ETHER & NONYLPHENOL, ETHOXYLATED

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

WATER & HYDROCARBON PROPELLANT

No significant acute toxicological data identified in literature search.

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: 

∠ − Data either not available or does not fill the criteria for classification

√ − Data available to make classification

#### **SECTION 12 Ecological information**

#### **Toxicity**

CRC 9302 Mag Wheel Cleaner	Endpoint Not Available	<b>Test Duration (hr)</b> Not Available	Species  Not Available	<b>Value</b> Not Available	Source Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96h	Fish	260- 310mg/l	2
sodium metasilicate	EC50	72h	Algae or other aquatic plants	207mg/l	2
	EC50	48h	Crustacea	0.28- 0.57mg/l	4
	EC50(ECx)	48h	Crustacea	0.28- 0.57mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96h	Fish	1700mg/l	Not Available
ethylene glycol monobutyl ether	EC50	48h	Crustacea	164mg/l	2
ether	EC50	72h	Algae or other aquatic plants	623mg/l	2
	EC10(ECx)	48h	Crustacea	7.2mg/l	2
	EC50	96h	Algae or other aquatic plants	720mg/l	2
nonylphenol, ethoxylated	Endpoint	Test Duration (hr)	Species	Value	Source
	BCF	1008h	Fish	<0.2	7
	EC50(ECx)	48h	Crustacea	86mg/l	Not Available

	EC50	96h	Algae or other aquatic plants	12mg/l	4
	EC50	48h	Crustacea	86mg/l	Not Available
	LC50	96h	Fish	1- 1.8mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
water	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96h	Fish	24.11mg/l	2
hydrocarbon propellant	EC50(ECx)	96h	Algae or other aquatic plants	7.71mg/l	2
	EC50	96h	Algae or other aquatic plants	7.71mg/l	2
Legend:	Extracted from	1. IUCLID Toxicity Data 2. Europe ECHA Re	egistered Substances - Ecotoxicological Infor	mation - Aqua	atic Toxicity

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms.

For Hydrocarbons: log Kow 1. BCF~10.

For Aromatics: log Kow 2-3.

BCF 20-200.

Drinking Water Standards: hydrocarbon total: 10 ug/l (UK max.).

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 1.37 days)
nonylphenol, ethoxylated	LOW	LOW
water	LOW	LOW

#### Bioaccumulative potential

Bioaccumulation	
LOW (BCF = 2.51)	
LOW (BCF = 16)	

#### Mobility in soil

Ingredient	Mobility
ethylene glycol monobutyl ether	HIGH (Log KOC = 1)
nonylphenol, ethoxylated	LOW (Log KOC = 940)

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal

- · 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.

#### Labels Required





**Marine Pollutant** 



**HAZCHEM** 

Not Applicable

#### Land transport (UN)

14.1. UN number or ID number

1950

14.2. UN proper shipping name

**AEROSOLS** 

Class

14.3. Transport hazard

2.2

class(es)

Subsidiary Hazard 8

14.4. Packing group

Not Applicable

14.5. Environmental hazard

Environmentally hazardous

Special provisions

14.6. Special precautions

63; 190; 277; 327; 344; 381

for user

Limited quantity 1000ml

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

14.1. UN number

14.2. UN proper shipping name

Aerosols, non-flammable, containing substances in Class 8, Packing Group III

8

14.3. Transport hazard class(es)

ICAO/IATA Class 2.2

ICAO / IATA Subsidiary Hazard

**ERG Code** 2C

14.4. Packing group

Not Applicable

14.5. Environmental hazard

Environmentally hazardous

14.6. Special precautions for user

A145 A167 A802 Special provisions

Cargo Only Packing Instructions 203 150 kg Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions 203 Passenger and Cargo Maximum Qty / Pack 75 kg

Passenger and Cargo Limited Quantity Packing Instructions Y203

Passenger and Cargo Limited Maximum Qty / Pack 30 kg G

#### Sea transport (IMDG-Code / GGVSee)

1950 14.1. UN number 14.2. UN proper shipping **AEROSOLS** name

IMDG Class

14.3, Transport hazard class(es)

IMDG Subsidiary Hazard 8

14.4. Packing group

for user

Not Applicable

**EMS Number** 

14.5 Environmental hazard 14.6. Special precautions

Marine Pollutant

F-D, S-U

2.2

63 190 277 327 344 381 959

Limited Quantities 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
sodium metasilicate	Not Available
ethylene glycol monobutyl ether	Not Available
nonylphenol, ethoxylated	Not Available
water	Not Available
hydrocarbon propellant	Not Available

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

Product name	Ship Type
sodium metasilicate	Not Available
ethylene glycol monobutyl ether	Not Available
nonylphenol, ethoxylated	Not Available
water	Not Available
hydrocarbon propellant	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	
HSR002519	Aerosols (Subsidiary Hazard) Group Standard 2017	

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

#### sodium metasilicate is found on the following regulatory lists

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)

#### ethylene glycol monobutyl ether 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)

#### nonylphenol, ethoxylated 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 Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods

#### water is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

#### hydrocarbon propellant 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)

#### Additional Regulatory Information

Not Applicable

#### **Hazardous Substance Location**

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

**Hazard Class** 

Quantities

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

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
8.2C	120	1	3	

#### **Tracking Requirements**

Not Applicable

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (sodium metasilicate; ethylene glycol monobutyl ether; nonylphenol, ethoxylated; water; hydrocarbon propellant)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory  No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

Revision Date	10/03/2023
Initial Date	11/10/2007

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
10.1	10/12/2021	Classification change due to full database hazard calculation/update.

Version

Date of Update

**Sections Updated** 

11.1

10/03/2023

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
- AllC: 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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