# Rocol Flaw Finder Cleaner Spray No.1 ITW Polymers & Fluids (NZ)

Chemwatch: 10667

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

Issue Date: 07/03/2020 Print Date: 16/08/2021 Initial Date: 16/06/2006

S.GHS.NZL.EN

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

#### **Product Identifier**

Product name	Rocol Flaw Finder Cleaner Spray No.1	
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	Metal cleaner; to clean welds prior to testing for defects with Rocol Flaw Finder.
	Application is by spray atomisation from a hand held aerosol pack

## Details of the supplier of the safety data sheet

Registered company name	ITW Polymers & Fluids (NZ)	
Address	Unit 2/38 Trugood Drive, East Tamaki Not Available 2013 Auckland New Zealand	
Telephone	9 272 1945	
Fax	Not Available	
Website	www.itwpf.co.nz	
Email	Not Available	

## **Emergency telephone number**

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE	
Emergency telephone numbers	61 2 9186 1132	
Other emergency telephone numbers	+64 800 700 112	

## **CHEMWATCH EMERGENCY RESPONSE**

Primary Number	Alternative Number 1	Alternative Number 2
+61 2 9186 1132	+64 800 700 112	Not Available

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

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 5, Skin Corrosion/Irritation Category 3, Serious Eye Damage/Eye Irritation Category 2, Specific Target Organ Toxicity - Single exposure (Narcotic Effects) Category 3, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1, Aerosols Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Chemwatch: **10667**Version No: **13.1.7.1** 

**Rocol Flaw Finder Cleaner Spray No.1** 

Issue Date: **07/03/2020**Print Date: **16/08/2021** 

Determined by Chemwatch using GHS/HSNO criteria Gazetted by EPA New Zealand

2.1.2A, 6.1E (oral), 6.3B, 6.4A, 6.9B (narcotic effects), 9.1A

#### Label elements









Signal word

Danger

#### Hazard statement(s)

H303	May be harmful if swallowed.
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.
H222	Extremely flammable aerosol.

## Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.	
P261	Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	
P280 Wear protective gloves, protective clothing, eye protection and face protection.		

## Precautionary statement(s) Response

P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsin		
P332+P313 If skin irritation occurs: Get medical advice/attention.		
P337+P313 If eye irritation persists: Get medical advice/attention.		

## Precautionary statement(s) Storage

P405	Store locked up.	
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
		naphtha (petroleum), light alkylate, as
540-84-1	40-50	2,2,4-trimethylpentane
67-64-1	20-30	acetone
68476-85-7.	30-40	hydrocarbon propellant

## **SECTION 4 First aid measures**

**Rocol Flaw Finder Cleaner Spray No.1** 

Chemwatch: 10667 Page 3 of 10 Issue Date: 07/03/2020 Version No: 13.1.7.1 Print Date: 16/08/2021

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

#### Description of first aid measures

General	
Eye Contact	If aerosols come in contact with the eyes:  Immediately hold the eyelids apart and flush the eye 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 contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	If aerosols, fumes or combustion products are inhaled:  Remove 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	Not considered a normal route of entry.  If swallowed do NOT induce vomiting.  If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.  Observe the patient carefully.  Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.  Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.  Seek medical advice.

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

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
- 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.

Chemwatch: 10667 Page 4 of 10 Issue Date: 07/03/2020

Version No: 13.1.7.1 Print Date: 16/08/2021 **Rocol Flaw Finder Cleaner Spray No.1** 

## Liquid and vapour are highly flammable.

- Severe fire hazard when exposed to heat or flame.
- Vapour forms an explosive mixture with air.

Fire/Explosion Hazard Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Combustion products include:

carbon dioxide (CO2)

other pyrolysis products typical of burning organic material.

## **SECTION 6 Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

#### 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**

- ▶ 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**

## 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.

▶ Store below 38 deg. C.

Prevent concentration in hollows and sumps.

## Other information

- ▶ Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped.

Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of

- No smoking, naked lights, heat or ignition sources.
- Keep containers securely sealed.

## Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Aerosol dispenser.</li> <li>Check that containers are clearly labelled.</li> </ul>	
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)	acetone	Acetone	500 ppm / 1185 mg/m3	2375 mg/m3 / 1000 ppm	Not Available	bio-Exposure can also be estimated by biological monitoring.
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	Material name	TEEL-1	TEEL-2	TEEL-3
2,2,4-trimethylpentane	Not Available	230 ppm	830 ppm	5000* ppm
acetone	Not Available	Not Available	Not Available	Not Available
hydrocarbon propellant	Not Available	65,000 ppm	2.30E+05 ppm	4.00E+05 ppm

## **Rocol Flaw Finder Cleaner Spray No.1**

Ingredient	Original IDLH	Revised IDLH
2,2,4-trimethylpentane	Not Available	Not Available
acetone	2,500 ppm	Not Available
hydrocarbon propellant	2,000 ppm	Not Available

#### **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.
Personal protection	
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
Hands/feet protection	<ul> <li>No special equipment needed when handling small quantities.</li> <li>OTHERWISE:</li> <li>For potentially moderate exposures:</li> <li>Wear general protective gloves, eg. light weight rubber gloves.</li> <li>For potentially heavy exposures:</li> <li>Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities.  OTHERWISE:  Poveralls.  Skin cleansing cream.  Eyewash unit.  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.
Thermal hazards	Not Available

#### Respiratory protection

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

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

#### Information on basic physical and chemical properties Clear colourless volatile highly flammable liquid with petrol-like odour; does not mix with water. **Appearance** Supplied as an aerosol pack. Contents under PRESSURE. Contains highly flammable hydrocarbon propellant. Relative density (Water = Physical state Liquid Not Available 1) Partition coefficient Not Available Not Available Odour n-octanol / water **Auto-ignition temperature** Odour threshold Not Available Not Available (°C) Decomposition pH (as supplied) Not Applicable Not Available temperature Melting point / freezing Not Available Viscosity (cSt) Not Available point (°C)

Chemwatch: 10667 Version No: 13.1.7.1

## **Rocol Flaw Finder Cleaner Spray No.1**

Issue Date: 07/03/2020 Print Date: 16/08/2021

Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	-81 (propellant)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	10.0 (propellant)	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.5 (propellant)	Volatile Component (%vol)	100
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (%)	Not Applicable
Vapour density (Air = 1)	>1	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**

#### Information on toxicological effects

Rocol Flaw Finder Cleaner	TOXICITY	IRRITATION		
Chronic	Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.  Constant or exposure over 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.  Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]			
Еуе	There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.			
Skin Contact	This material can cause inflammation of the skin on contact in some persons.  The material may accentuate any pre-existing dermatitis condition			
Ingestion	Not normally a hazard due to physical form of product.  Ingestion may result in nausea, pain, vomiting. Vomit entering the lungs by aspiration may cause potentially lethal chemical pneumonitis.			
Inhaled	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.  If exposure to highly concentrated solvent atmosphere is prolonged this may lead to narcosis, unconsciousness, even coma and possible death.  WARNING:Intentional misuse by concentrating/inhaling contents may be lethal.			

Rocol Flaw Finder Cleaner Spray No.1	TOXICITY	IRRITATION	
Rocol Flaw Finder Cleaner Spray No.1	TOXICITY	IRRITATION	
Rocol Flaw Finder Cleaner Spray No.1	TOXICITY	IRRITATION	
Rocol Flaw Finder Cleaner Spray No.1	TOXICITY	IRRITATION	
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS.		

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

 Chemwatch: 10667
 Page 7 of 10
 Issue Date: 07/03/2020

 Version No: 13.1.7.1
 Print Date: 16/08/2021

#### **Rocol Flaw Finder Cleaner Spray No.1**

The safety of isoparaffins as used in cosmetic products was reviewed by the Cosmetic Ingredient Review (CIR) Expert Panel. These ingredients function mostly as solvents and also function as emollients in the 0001% to 90% concentration range. The CIR Expert Panel has reviewed relevant animal and clinical data and concluded that these ingredients are safe in the present

The CIR Expert Panel noted that most of the available data related to oral or inhalation exposure to isoparaffins, but the dermal and ocular exposure data that were available, suggested mild ocular irritation, mild-to-severe irritation, no sensitization or photosensitization, and no phototoxicity. No significant toxicity was identified in oral or inhalation exposure studies of the following end points: genotoxicity, reproductive and developmental toxicity, or carcinogenicity. Nephrotoxicity, however, was a concern. The Expert Panel noted the involvement of a2u-globulin in the mechanism for isoparaffin-induced nephrotoxicity/renal tubule cell proliferation in male rats of various strains in oral and inhalation exposure studies.

Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cycloparaffins.

#### Rocol Flaw Finder Cleaner Spray No.1

The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the diet. Some hydrocarbons may appear unchanged as in the lipoprotein particles in the gut lymph, but most hydrocarbons partly separate from fats and undergo metabolism in the gut cell.

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-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.

#### Rocol Flaw Finder Cleaner Spray No.1

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.

For acetone:

practices of use and concentration

The acute toxicity of acetone is low. Acetone is not a skin irritant or sensitizer, but it removes fat from the skin, and it also irritates the eye. Animal testing shows acetone may cause macrocytic anaemia. Studies in humans have shown that exposure to acetone at a level of 2375 mg/cubic metre has not caused neurobehavioural deficits.

Rocol Flaw Finder Cleaner Spray No.1

No significant acute toxicological data identified in literature search. inhalation of the gas

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

Legend:

✓ – Data available to make classification

— Data available but does not fill the criteria for classification

N – Data Not Available to make classification

## **SECTION 12 Ecological information**

#### Toxicity

## Not Available

Ingredient	Endpoint	Test Duration (hr)	Effect	Value	Species	BCF
Rocol Flaw Finder Cleaner Spray No.1	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Rocol Flaw Finder Cleaner Spray No.1	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Rocol Flaw Finder Cleaner Spray No.1	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Rocol Flaw Finder Cleaner Spray No.1	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

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.

Version No: 13.1.7.1

**Rocol Flaw Finder Cleaner Spray No.1** 

DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
2,2,4-trimethylpentane	HIGH	HIGH
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)

## **Bioaccumulative potential**

Ingredient	Bioaccumulation	
2,2,4-trimethylpentane	MEDIUM (BCF = 650)	
acetone	LOW (BCF = 0.69)	

## Mobility in soil

Ingredient	Mobility
2,2,4-trimethylpentane	LOW (KOC = 275.5)
acetone	HIGH (KOC = 1.981)

## **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

## **SECTION 14 Transport information**

## **Labels Required**



**Marine Pollutant** 



HAZCHEM

Not Applicable

## Land transport (UN)

UN number	1950			
Packing group	Not Applica	able		
UN proper shipping name	AEROSOL	AEROSOLS		
Environmental hazard	No relevan	t data		
Transport hazard class(es)	Class Subrisk	2.1 Not Appl	licable	
Special precautions for user	Special p		63; 190; 277; 327; 344; 381 1000ml	

## Air transport (ICAO-IATA / DGR)

UN number	1950
Packing group	Not Applicable

Issue Date: 07/03/2020

Print Date: 16/08/2021

## **Rocol Flaw Finder Cleaner Spray No.1**

UN proper shipping name	Aerosols, flammable			
Environmental hazard	No relevant data			
	ICAO/IATA Class	2.1		
Transport hazard class(es)	ERG Code	Not Applicable  10L		
	Special provisions		A145 A167 A802	
	Cargo Only Packing Ir	nstructions	203	
	Cargo Only Maximum	Qty / Pack	150 kg	
Special precautions for user	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)

UN number	1950			
Packing group	Not Applicable			
UN proper shipping name	AEROSOLS			
Environmental hazard	Marine Pollutant	Marine Pollutant		
Transport hazard class(es)	IMDG Class 2 IMDG Subrisk N	ot Applicable		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-D , S-U 63 190 277 327 344 381 959 1000 ml		

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

Source	Ingredient	Pollution Category
Not Available	Rocol Flaw Finder Cleaner Spray No.1	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 StandardThis substance can be managed under the controls specified in the Transfer Notice or alternatively it may be managed using the conditions specified in an applicable Group Standard.

HSR Number	Group Standard
HSR002515	Aerosols (Flammable) Group Standard 2017

## 2,2,4-trimethylpentane(540-84-1) 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)

#### acetone(67-64-1) 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)

New Zealand Workplace Exposure Standards (WES)

#### hydrocarbon propellant(68476-85-7.) is found on the following regulatory lists

Chemwatch: 10667 Page 10 of 10 Issue Date: 07/03/2020 Version No: 13.1.7.1

#### **Rocol Flaw Finder Cleaner Spray No.1**

Print Date: 16/08/2021

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)

#### **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

National Inventory	Status
Australia - AIIC	
Canada - DSL	Yes
Canada - NDSL	No (2,2,4-trimethylpentane; acetone; 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
Legend:	Y = All ingredients are on the inventory

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

#### 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.

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TEL (+61 3) 9572 4700.

# Rocol Flaw Finder Developer Spray ITW Polymers & Fluids (NZ)

Chemwatch: 106695

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

Issue Date: 01/11/2019
Print Date: 16/08/2021
Initial Date: 16/06/2006
S.GHS.NZL.EN

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

#### **Product Identifier**

Product name	Rocol Flaw Finder Developer Spray
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	Developer.
	Application is by spray atomisation from a hand held aerosol pack

## Details of the supplier of the safety data sheet

Registered company name	ITW Polymers & Fluids (NZ)
Address	Unit 2/38 Trugood Drive, East Tamaki Not Available 2013 Auckland New Zealand
Telephone	09 272 1945
Fax	Not Available
Website	www.itwpf.co.nz
Email	Not Available

## **Emergency telephone number**

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	+61 2 9186 1132
Other emergency telephone numbers	+64 800 700 112

## **CHEMWATCH EMERGENCY RESPONSE**

Primary Number	Alternative Number 1	Alternative Number 2
+61 2 9186 1132	+64 800 700 112	Not Available

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

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 5, Skin Corrosion/Irritation Category 3, Serious Eye Damage/Eye Irritation Category 2, Specific Target Organ Toxicity - Single exposure (Narcotic Effects) Category 3, Aerosols Category 1	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

#### **Rocol Flaw Finder Developer Spray**

Issue Date: **01/11/2019**Print Date: **16/08/2021** 

Determined by Chemwatch using GHS/HSNO criteria Gazetted by EPA New Zealand

2.1.2A, 6.1E (oral), 6.3B, 6.4A, 6.9B (narcotic effects)

#### Label elements







Signal word

Danger

#### Hazard statement(s)

H303	May be harmful if swallowed.
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H222	Extremely flammable aerosol.

## Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

## Precautionary statement(s) Response

P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	

#### Precautionary statement(s) Storage

P405	Store locked up.
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
67-64-1	30-50	acetone
7631-86-9	5-10	silica amorphous
68476-85-7.	30-50	hydrocarbon propellant

## **SECTION 4 First aid measures**

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

## Description of first aid measures

Chemwatch: **106695** Version No: **11.1.7.1** 

#### **Rocol Flaw Finder Developer Spray**

Issue Date: 01/11/2019 Print Date: 16/08/2021

General	
Eye Contact	If aerosols come in contact with the eyes:  Immediately hold the eyelids apart and flush the eye 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 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	Not considered a normal route of entry.  If swallowed do NOT induce vomiting.  If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.  Observe the patient carefully.  Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.  Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.  Seek medical advice.

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

Treat symptomatically.

For acute or short term repeated exposures to acetone:

- $\mbox{\ensuremath{\,^{\triangleright}}}$  Symptoms of acetone exposure approximate ethanol intoxication.
- About 20% is expired by the lungs and the rest is metabolised. Alveolar air half-life is about 4 hours following two hour inhalation at levels near the Exposure Standard; in overdose, saturable metabolism and limited clearance, prolong the elimination half-life to 25-30 hours.
- ▶ There are no known antidotes and treatment should involve the usual methods of decontamination followed by supportive care.

[Ellenhorn and Barceloux: Medical Toxicology]

#### Management:

Measurement of serum and urine acetone concentrations may be useful to monitor the severity of ingestion or inhalation.

Inhalation Management:

- ▶ Maintain a clear airway, give humidified oxygen and ventilate if necessary.
- If respiratory irritation occurs, assess respiratory function and, if necessary, perform chest X-rays to check for chemical pneumonitis.
- ▶ Consider the use of steroids to reduce the inflammatory response.
- ► Treat pulmonary oedema with PEEP or CPAP ventilation.

#### Dermal Management:

- Remove any remaining contaminated clothing, place in double sealed, clear bags, label and store in secure area away from patients and staff.
- Irrigate with copious amounts of water.
- An emollient may be required.

#### Eye Management:

- Irrigate thoroughly with running water or saline for 15 minutes.
- ▶ Stain with fluorescein and refer to an ophthalmologist if there is any uptake of the stain.

#### Oral Management:

- ▶ No GASTRIC LAVAGE OR EMETIC
- Encourage oral fluids.

#### Systemic Management:

- Monitor blood glucose and arterial pH.
- Ventilate if respiratory depression occurs.
- If patient unconscious, monitor renal function.
- Symptomatic and supportive care.

The Chemical Incident Management Handbook:

Guy's and St. Thomas' Hospital Trust, 2000

BIOLOGICAL EXPOSURE INDEX

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

DeterminantSampling TimeIndexCommentsAcetone in urineEnd of shift50 mg/LNS

Chemwatch: **106695** Page **4** of **11** 

Version No: 11.1.7.1 Rocol Flaw Finder Developer Spray Print Date: 16/08/2021

#### **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	Incom	natibi	litv
1116	IIICOIII	patibi	y

 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.
- ▶ May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.

## Fire/Explosion Hazard

- 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.

#### Combustion products include:

carbon dioxide (CO2)

silicon dioxide (SiO2)

other pyrolysis products typical of burning organic material.

#### **SECTION 6 Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

## 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
- 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**

Safe handling

## Precautions for 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.

- ► Store below 38 deg. C.
- Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can

#### Other information 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 Avoid storage with reducing agents.

Issue Date: 01/11/2019

Issue Date: 01/11/2019 Print Date: 16/08/2021

## **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)	acetone	Acetone	500 ppm / 1185 mg/m3	2375 mg/m3 / 1000 ppm	Not Available	bio-Exposure can also be estimated by biological monitoring.
New Zealand Workplace Exposure Standards (WES)	silica amorphous	Silica-Amorphous: Precipitated silica	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	silica amorphous	Silica-Amorphous: Silica gel	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	silica amorphous	Silica gel (Silica- Amorphous)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	silica amorphous	Silica fume respirable dust	2 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	silica amorphous	Precipitated silica (Silica- Amorphous)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	silica amorphous	Silica fused respirable dust	0.2 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	silica amorphous	Silica-Amorphous: Diatomaceous earth (not calcined)	10 mg/m3	Not Available	Not Available	Not Available
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	Material name	TEEL-1	TEEL-2	TEEL-3
acetone	Not Available	Not Available	Not Available	Not Available
silica amorphous	Not Available	18 mg/m3	200 mg/m3	1,200 mg/m3
silica amorphous	Not Available	18 mg/m3	100 mg/m3	630 mg/m3
silica amorphous	Not Available	120 mg/m3	1,300 mg/m3	7,900 mg/m3
silica amorphous	Not Available	45 mg/m3	500 mg/m3	3,000 mg/m3
silica amorphous	Not Available	18 mg/m3	740 mg/m3	4,500 mg/m3
hydrocarbon propellant	Not Available	65,000 ppm	2.30E+05 ppm	4.00E+05 ppm

Ingredient	Original IDLH	Revised IDLH
acetone	2,500 ppm	Not Available
silica amorphous	3,000 mg/m3	Not Available
hydrocarbon propellant	2,000 ppm	Not Available

## **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.

## Personal protection









No special equipment for minor exposure i.e. when handling small quantities.

Eye and face protection

- 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.

Chemwatch: **106695**Version No: **11.1.7.1** 

## **Rocol Flaw Finder Developer Spray**

Issue Date: **01/11/2019**Print Date: **16/08/2021** 

Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>No special equipment needed when handling small quantities.</li> <li>OTHERWISE:</li> <li>For potentially moderate exposures:</li> <li>Wear general protective gloves, eg. light weight rubber gloves.</li> <li>For potentially heavy exposures:</li> <li>Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities.  OTHERWISE:  Overalls.  Skin cleansing cream.  Eyewash unit.  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.
Thermal hazards	Not Available

## **Respiratory protection**

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

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

## Information on basic physical and chemical properties

Appearance	Non-viscous, white, highly flammable liquid with a characteristic odour; does not mix with water.		
Physical state	Liquid	Relative density (Water = 1)	0.68
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	<0	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	<0	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	<-20	Taste	Not Available
Evaporation rate	Fast	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (%)	Not Applicable
Vapour 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

**Rocol Flaw Finder Developer Spray** 

Issue Date: 01/11/2019
Print Date: 16/08/2021

Incompatible materials	See section 7
Hazardous decomposition products	See section 5

#### **SECTION 11 Toxicological information**

#### Information on toxicological effects

Version No: 11.1.7.1

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.

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.

Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.

#### Inhaled

Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure. **WARNING:**Intentional misuse by concentrating/inhaling contents may be lethal.

Effects of exposure to acetone by inhalation include central nervous system depression, light-headedness, unintelligible speech, inco-ordination, stupor, low blood pressure, fast heart rate, metabolic acidosis, high blood sugar and ketosis. Rarely, there may be convulsions and death of kidney tubules.

Ketone vapours irritate the nose, throat and mucous membrane. High concentrations depress the central nervous system, causing headache, vertigo, poor concentration, sleep and failure of the heart and breathing.

#### Ingestion

Accidental ingestion of the material may be damaging to the health of the individual.

Not normally a hazard due to physical form of product.

Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.

## Skin Contact

Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.

Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.

There is some evidence to suggest that the material may cause mild but significant inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.

Spray mist may produce discomfort

Open cuts, abraded or irritated skin should not be exposed to this material

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

Eye

There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.

#### Chronic

Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Workers exposed to acetone for long periods showed inflammation of the airways, stomach and small bowel, attacks of giddiness and loss of strength. Exposure to acetone may enhance the liver toxicity of chlorinated solvents.

Rocol Flaw Finder Developer Spray	TOXICITY	IRRITATION
Rocol Flaw Finder Developer Spray	TOXICITY	IRRITATION
Rocol Flaw Finder Developer Spray	TOXICITY	IRRITATION
Rocol Flaw Finder Developer Spray	TOXICITY	IRRITATION

#### 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

## Rocol Flaw Finder Developer Spray

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.

#### For acetone:

The acute toxicity of acetone is low. Acetone is not a skin irritant or sensitizer, but it removes fat from the skin, and it also irritates the eye. Animal testing shows acetone may cause macrocytic anaemia. Studies in humans have shown that exposure to acetone at a level of 2375 mg/cubic metre has not caused neurobehavioural deficits.

Chemwatch: 106695 Page 8 of 11 Version No: 11.1.7.1

#### **Rocol Flaw Finder Developer Spray**

Issue Date: 01/11/2019 Print Date: 16/08/2021

Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS]

For silica amorphous:

Derived No Adverse Effects Level (NOAEL) in the range of 1000 mg/kg/d.

#### **Rocol Flaw Finder Developer Spray**

In humans, synthetic amorphous silica (SAS) is essentially non-toxic by mouth, skin or eyes, and by inhalation. Epidemiology studies show little evidence of adverse health effects due to SAS. Repeated exposure (without personal protection) may cause mechanical irritation of the eye and drying/cracking of the skin.

When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body.

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.

**Rocol Flaw Finder Developer Spray** 

No significant acute toxicological data identified in literature search. inhalation of the gas

Acute Toxicity	<b>~</b>	Carcinogenicity	×
Skin Irritation/Corrosion	<b>✓</b>	Reproductivity	×
Serious Eye Damage/Irritation	•	STOT - Single Exposure	<b>✓</b>
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

✓ – Data available to make classification

💢 – Data available but does not fill the criteria for classification

Data Not Available to make classification

## **SECTION 12 Ecological information**

#### **Toxicity**

#### Not Available

Ingredient	Endpoint	Test Duration (hr)	Effect	Value	Species	BCF
Rocol Flaw Finder Developer Spray	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Rocol Flaw Finder Developer Spray	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Rocol Flaw Finder Developer Spray	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Rocol Flaw Finder Developer Spray	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)
silica amorphous	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
acetone	LOW (BCF = 0.69)
silica amorphous	LOW (LogKOW = 0.5294)

## Mobility in soil

Ingredient	Mobility
acetone	HIGH (KOC = 1.981)
silica amorphous	LOW (KOC = 23.74)

## **SECTION 13 Disposal considerations**

Chemwatch: **106695**Version No: **11.1.7.1** 

## **Rocol Flaw Finder Developer Spray**

Issue Date: **01/11/2019**Print Date: **16/08/2021** 

#### 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

## **SECTION 14 Transport information**

## **Labels Required**



## Land transport (UN)

UN number	1950	1950		
Packing group	Not Applica	Not Applicable		
UN proper shipping name	AEROSOL	AEROSOLS		
Environmental hazard	No relevan	No relevant data		
Transport hazard class(es)	Class Subrisk	2.1 Not Appl	icable	
Special precautions for user	Special provisions Limited quantity		63; 190; 277; 327; 344; 381 1000ml	

## Air transport (ICAO-IATA / DGR)

UN number	1950			
Packing group	Not Applicable	Not Applicable		
UN proper shipping name	Aerosols, flammable			
Environmental hazard	No relevant data			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	2.1 Not Applicable 10L		
Special precautions for user		Qty / Pack Packing Instructions	A145 A167 A802 203 150 kg 203 75 kg Y203 30 kg G	

## Sea transport (IMDG-Code / GGVSee)

UN number	1950
Packing group	Not Applicable
UN proper shipping name	AEROSOLS

## **Rocol Flaw Finder Developer Spray**

Issue Date: **01/11/2019**Print Date: **16/08/2021** 

Environmental hazard	Not Applicable	
Transport hazard class(es)	IMDG Class	2.1
	IMDG Subrisk	Not Applicable
Special precautions for user	EMS Number	F-D , S-U
	Special provisions	63 190 277 327 344 381 959
	Limited Quantities	s 1000 ml

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

Source	Ingredient	Pollution Category
Not Available	Rocol Flaw Finder Developer Spray	Not Available

## **SECTION 15 Regulatory information**

Version No: 11.1.7.1

#### 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 StandardThis substance can be managed under the controls specified in the Transfer Notice or alternatively it may be managed using the conditions specified in an applicable Group Standard.

HSR Number	Group Standard
HSR002515	Aerosols (Flammable) Group Standard 2017

#### acetone(67-64-1) 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)

New Zealand Workplace Exposure Standards (WES)

#### silica amorphous(7631-86-9) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

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

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

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)

#### hydrocarbon propellant(68476-85-7.) 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 - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### **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

Chemwatch: 106695 Page 11 of 11 Issue Date: 01/11/2019 Version No: 11.1.7.1 Print Date: 16/08/2021

#### **Rocol Flaw Finder Developer Spray**

Refer Group Standards for further information

National Inventory	Status
Australia - AIIC	
Canada - DSL	Yes
Canada - NDSL	No (acetone; 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
Legend:	Y = All ingredients are on the inventory

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

#### 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.

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TEL (+61 3) 9572 4700.

# Rocol Flaw Finder VW Spray No.2 ITW Polymers & Fluids (NZ)

Chemwatch: 25118

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

Issue Date: 30/12/2020 Print Date: 16/08/2021 Initial Date: 16/06/2006

S.GHS.NZL.EN

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

#### **Product Identifier**

Product name	Rocol Flaw Finder VW Spray No.2
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

	Crack detection in metal.  Application is by spray atomisation from a hand held aerosol pack Use according to manufacturer's directions.
--	--

## Details of the supplier of the safety data sheet

Registered company name	ITW Polymers & Fluids (NZ)	
Address	Jnit 2/38 Trugood Drive, East Tamaki Not Available 2013 Auckland New Zealand	
Telephone	09 272 1945	
Fax	Not Available	
Website	www.itwpf.co.nz	
Email	Not Available	

#### **Emergency telephone number**

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE	
Emergency telephone numbers	+61 2 9186 1132	
Other emergency telephone numbers	+64 800 700 112	

#### **CHEMWATCH EMERGENCY RESPONSE**

Primary Number	Alternative Number 1	Alternative Number 2
+61 2 9186 1132	+64 800 700 112	Not Available

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

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 5, Skin Corrosion/Irritation Category 3, Specific Target Organ Toxicity - Single exposure (Narcotic Effects) Category 3, Aerosols Category 1	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Issue Date: **30/12/2020**Print Date: **16/08/2021** 

Determined by Chemwatch using GHS/HSNO criteria Gazetted by EPA New Zealand

2.1.2A, 6.1E (oral), 6.3B, 6.9B (narcotic effects)

#### Label elements







Signal word

Danger

## Hazard statement(s)

H303	ay be harmful if swallowed.	
H316	Causes mild skin irritation.	
H336	May cause drowsiness or dizziness.	
H222	Extremely flammable aerosol.	

## Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.	
P261	Avoid breathing mist/vapours/spray.	

#### Precautionary statement(s) Response

P301+P312	P301+P312   IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	

## Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

## Precautionary statement(s) Disposal

<b>P501</b> 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	10-30	mineral oil
		(solvent refined)
	10-30	hydrocarbon solvent
	<10	surfactant
	<10	dye
68476-85-7.	30-60	hydrocarbon propellant

## **SECTION 4 First aid measures**

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

## Description of first aid measures

General

Chemwatch: **25118**Version No: **8.1.7.1** 

Page **3** of **10** 

## Rocol Flaw Finder VW Spray No.2

Issue Date: **30/12/2020**Print Date: **16/08/2021** 

Eye Contact	If aerosols come in contact with the eyes:  Immediately hold the eyelids apart and flush the eye 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 contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If aerosols, fumes or combustion products are inhaled:</li> <li>Remove to fresh air.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	Not considered a normal route of entry.  If swallowed do NOT induce vomiting.  If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.  Observe the patient carefully.  Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.  Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.  Seek medical advice.

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

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

#### Fire Fighting

- 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.

## Fire/Explosion Hazard

- 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.

Combustion products include:

carbon dioxide (CO2)

Page 4 of 10

Rocol Flaw Finder VW Spray No.2

Issue Date: **30/12/2020**Print Date: **16/08/2021** 

other pyrolysis products typical of burning organic material.

## **SECTION 6 Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

## Minor Spills

**Major 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.
- 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**

## 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.

▶ Store below 38 deg. C.

Prevent concentration in hollows and sumps.

## Other information

- F 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)	mineral oil	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	om-Sampled by a method that does not collect vapour.
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	Material name	TEEL-1	TEEL-2	TEEL-3
mineral oil	Not Available	140 mg/m3	1,500 mg/m3	8,900 mg/m3
hydrocarbon propellant	Not Available	65,000 ppm	2.30E+05 ppm	4.00E+05 ppm

Ingredient	Original IDLH	Revised IDLH
mineral oil	2,500 mg/m3	Not Available
hydrocarbon propellant	2,000 ppm	Not Available

#### **Exposure controls**

Appropriate engineering	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed
Appropriate engineering	Trigincoming controls are asset to remove a nazara or place a barrier between the worker and the nazara. Well acsigned

#### Rocol Flaw Finder VW Spray No.2

Issue Date: **30/12/2020**Print Date: **16/08/2021** 

controls	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.
Personal protection	
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
Hands/feet protection	<ul> <li>No special equipment needed when handling small quantities.</li> <li>OTHERWISE:</li> <li>For potentially moderate exposures:</li> <li>Wear general protective gloves, eg. light weight rubber gloves.</li> <li>For potentially heavy exposures:</li> <li>Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities.  OTHERWISE:  Overalls.  Skin cleansing cream.  Eyewash unit.  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.
Thermal hazards	Not Available

## **Respiratory protection**

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

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

#### Information on basic physical and chemical properties Red/pink liquid with a hydrocarbon odour; does not mix with water. **Appearance** Supplied as an aerosol pack. Contents under PRESSURE. Contains highly flammable hydrocarbon propellant. Relative density (Water = Physical state Liquid Partition coefficient Odour Not Available Not Available n-octanol / water Auto-ignition temperature **Odour threshold** Not Available Not Available Decomposition pH (as supplied) Not Applicable Not Available temperature Melting point / freezing Not Available Viscosity (cSt) Not Available point (°C) Initial boiling point and Not Available Molecular weight (g/mol) Not Applicable boiling range (°C) Flash point (°C) -81 propellant Taste Not Available **Evaporation rate** Not Available **Explosive properties** Not Available Flammability HIGHLY FLAMMABLE. **Oxidising properties** Not Available Surface Tension (dyn/cm **Upper Explosive Limit (%)** Not Available Not Available or mN/m) Lower Explosive Limit (%) **Volatile Component (%vol)** Not Available Not Available

Rocol Flaw Finder VW Spray No.2

Issue Date: 30/12/2020 Print Date: 16/08/2021

Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (%)	Not Applicable
Vapour 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

**Rocol Flaw Finder VW** 

Spray No.2

**Acute Toxicity** 

formation on toxicolog	cal effects		
Inhaled	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.  If exposure to highly concentrated solvent atmosphere is prolonged this may lead to narcosis, unconsciousness, even coma and possible death.  WARNING:Intentional misuse by concentrating/inhaling contents may be lethal.		
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.  Not normally a hazard due to physical form of product.  Ingestion may result in nausea, pain, vomiting. Vomit entering the lungs by aspiration may cause potentially lethal chemical pneumonitis.		
Skin Contact	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.  The material may accentuate any pre-existing dermatitis condition		
Eye	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
Chronic	occupational exposure.  Constant or exposure over long periods to m	n, may occur and may cause some concern following repeated or long-term nixed hydrocarbons may produce stupor with dizziness, weakness and visual reduced liver and kidney function. Skin exposure may result in drying and cracking	
Rocol Flaw Finder VW Spray No.2	TOXICITY	IRRITATION	
Rocol Flaw Finder VW Spray No.2	TOXICITY	IRRITATION	
Rocol Flaw Finder VW Spray No.2	TOXICITY	IRRITATION	
Legend:	1	tered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. rom RTECS - Register of Toxic Effect of chemical Substances	
Rocol Flaw Finder VW Spray No.2	composition and source of the original cru A small but definite risk of occupational sk period of years. This risk has been attribut benz[a]pyrene).	ased mineral oils are related to chemical components and vary as does the de. in cancer occurs in workers exposed to persistent skin contamination by oils over a ed to the presence of certain polycyclic aromatic hydrocarbons (PAH) (typified by extracted or severely hydrotreated, contain very low concentrations of both.	

No significant acute toxicological data identified in literature search. inhalation of the gas

Carcinogenicity

#### Page 7 of 10

## **Rocol Flaw Finder VW Spray No.2**

Issue Date: **30/12/2020**Print Date: **16/08/2021** 

Skin Irritation/Corrosion	<b>~</b>	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	•
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

✓ – Data available to make classification

★ - Data available but does not fill the criteria for classification

Data Not Available to make classification

## **SECTION 12 Ecological information**

## **Toxicity**

## Not Available

Ingredient	Endpoint	Test Duration (hr)	Effect	Value	Species	BCF
Rocol Flaw Finder VW Spray No.2	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Rocol Flaw Finder VW Spray No.2	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Rocol Flaw Finder VW Spray No.2	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

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	
	No Data available for all ingredients	No Data available for all ingredients	

## **Bioaccumulative potential**

Ingredient	Bioaccumulation
	No Data available for all ingredients

## Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

## **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

## **SECTION 14 Transport information**

#### **Labels Required**



## Rocol Flaw Finder VW Spray No.2

Issue Date: **30/12/2020**Print Date: **16/08/2021** 

Marine Pollutant	NO
	Not Applicable
HAZCHEM	Not Applicable

## Land transport (UN)

UN number	1950	1950		
Packing group	Not Applica	Not Applicable		
UN proper shipping name	AEROSOLS	AEROSOLS		
Environmental hazard	No relevant	No relevant data		
Transport hazard class(es)	Class Subrisk	2.1 Not Appl	icable	
Special precautions for user	Special provisions Limited quantity		63; 190; 277; 327; 344; 381 1000ml	

## Air transport (ICAO-IATA / DGR)

All transport (10/10 1/1/1/	, 2011,				
UN number	1950				
Packing group	Not Applicable	Not Applicable			
UN proper shipping name	Aerosols, flammable	Aerosols, flammable			
Environmental hazard	No relevant data				
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	2.1 Not Applicable 10L			
	Special provisions  Cargo Only Packing Instructions		A145 A167 A802		
	Cargo Only Maximum Qty / Pack		150 kg		
Special precautions for user	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)

UN number	1950		
Packing group	Not Applicable		
UN proper shipping name	AEROSOLS		
Environmental hazard	Not Applicable		
Transport hazard class(es)	IMDG Class 2.1  IMDG Subrisk Not Applicable		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-D , S-U 63 190 277 327 344 381 959 1000 ml	

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

Source	Ingredient	Pollution Category
Not Available	Rocol Flaw Finder VW Spray No.2	Not Available

Issue Date: **30/12/2020**Print Date: **16/08/2021** 

#### **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 StandardThis substance can be managed under the controls specified in the Transfer Notice or alternatively it may be managed using the conditions specified in an applicable Group Standard.

HSR Number	Group Standard
HSR002515	Aerosols (Flammable) Group Standard 2017

#### mineral oil(Not Available) is found on the following regulatory lists

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

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Workplace Exposure Standards (WES)

#### hydrocarbon propellant(68476-85-7.) 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)

#### **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

National Inventory	Status
Australia - AIIC	
Canada - DSL	Yes
Canada - NDSL	No (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
Legend:	Y = All ingredients are on the inventory

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

#### 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.

Chemwatch: 25118 Page 10 of 10 Issue Date: 30/12/2020 Version No: 8.1.7.1 Print Date: 16/08/2021

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