

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

Prod	luct	Iden	tifier
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Product name	DUBL-CHEK DR-64 Solvent/Remover Aerosol
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	Solvent cleaner.
	Application is by spray atomisation from a hand held aerosol pack

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

	•
Registered company name	Euromarc
Address	203 Glover Road Hawera 4640
Telephone	0800 278 600
Fax	Not Available
Website	euromarc.co.nz
Email	sales@euromarc.co.nz

### Emergency telephone number

Association / Organisation	CHEMCALL
Emergency telephone numbers	0800 243 622
Other emergency telephone numbers	111

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

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

Classification <sup>[1]</sup>	Flammable Aerosols Category 1, Acute Toxicity (Oral) Category 5, Acute Toxicity (Dermal) Category 5, Acute Toxicity (Inhalation) Category 5, Skin Corrosion/Irritation Category 3, Eye Irritation Category 2, Specific target organ toxicity - single exposure Category 3 (narcotic effects)
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	2.1.2A, 6.1E (dermal), 6.1E (inhalation), 6.1E (oral), 6.3B, 6.4A

### Label elements

Hazard pictogram(s)





Signal word Danger

nazaro statement(s)	
H222	Extremely flammable aerosol.
H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H333	May be harmful if inhaled.
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.

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Dubl Chek DR-64

H336	May cause drowsiness or dizziness.

### Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P211	Do not spray on an open flame or other ignition source.	
P251	Do not pierce or burn, even after use.	
P271	Use only outdoors or in a well-ventilated area.	
P261	Avoid breathing mist/vapours/spray.	

### Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P312	IF INHALED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: 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.	
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
67-64-1	>60	acetone
68476-85-7.	20-40	hydrocarbon propellant
Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

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

### Description of first aid measures

Description of first aid measure	es
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 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 poisoning occurs, contact a doctor or Poisons Information Centre.  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:

- ▶ 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:**

- Famove 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):

Determinant Sampling Time Index Comments Acetone in urine End of shift 50 mg/L NS

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

### **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	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> </ul>
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. Vapour may travel a considerable distance to source of ignition. 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

See section 8

### **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> <li>Wipe up.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses</li> <li>No smoking, naked lights or ignition sources.</li> </ul>

Other information

### Precautions for safe handling

### ▶ Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs.

- Safe handling ▶ Use in a well-ventilated area.
  - Prevent concentration in hollows and sumps.
  - ▶ DO NOT enter confined spaces until atmosphere has been checked.
  - 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. Contents under pressure.

### Conditions for safe storage, including any incompatibilities

• ,	• • •
Suitable container	Aerosol dispenser.     Check that containers are clearly labelled.
Storage incompatibility	► Avoid reaction with oxidising agents

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

## 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	TEEL-1	TEEL-2	TEEL-3
acetone	Not Available	Not Available	Not Available
hydrocarbon propellant	65,000 ppm	2.30E+05 ppm	4.00E+05 ppm

Ingredient	Original IDLH	Revised IDLH
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. Ventilation can remove or dilute an air contaminant if designed properly.

## Personal protection











# Eve and face protection

Hands/feet 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**

See Other protection below

### No special equipment needed when handling small quantities. OTHERWISE:

### Other protection

Overalls. Skin cleansing cream.

- ▶ Eyewash unit. ► Do not spray on hot surfaces.
- 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.

Continued...

Dubl Chek DR-64 11 November 2019 | Page 4 of 10 Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost. BRETHERICK: Handbook of Reactive Chemical Hazards.

### 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:

DUBL-CHEK DR-64 Solvent/Remover Aerosol

Material	СРІ
BUTYL	A
BUTYL/NEOPRENE	A
PE/EVAL/PE	A
PVDC/PE/PVDC	A
SARANEX-23 2-PLY	В
TEFLON	В
CPE	С
HYPALON	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NITRILE	С
NITRILE+PVC	С
PVA	С
PVC	С
SARANEX-23	С
VITON/NEOPRENE	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. -

### Respiratory protection

Type AX 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 10 x ES	Air-line*	AX-2	AX-PAPR-2 ^
up to 20 x ES	-	AX-3	-
20+ x ES	-	Air-line**	-

\* - Continuous-flow; \*\* - Continuous-flow or positive pressure demand ^ - 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)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

# **SECTION 9 Physical and chemical properties**

# Information on basic physical and chemical properties

Appearance	Clear highly flammable liquid with a sweetish solvent odour; partly mixes with water.		
Physical state	Liquid	Relative density (Water= 1)	0.785-0.788 bulk
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)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	45	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	-84 propellant	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	9.5 propellant	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.8 propellant	Volatile Component (%vol)	>60
Vapour pressure (kPa)	UNDER PRESSURE	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	>1	VOC g/L	Not Available

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

Reactivity	See section 7
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<sup>\*</sup> 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.

Chemical stability	Elevated temperatures.     Presence of open flame.     Product is considered stable.     Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological i	nformation			
Information on toxicological e	ffects			
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.  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.			
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, abdominal irritation, pain and vomiting			
Skin Contact	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.  Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.  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 irrita inflammation may be expected with pain.	ation in some persons and produce ey	e damage 24 hours or more after instillation. Severe	
Chronic	Workers exposed to acetone for long periods showed strength. Exposure to acetone may enhance the liver		and small bowel, attacks of giddiness and loss of	
DUBL-CHEK DR-64	TOXICITY	IRRITATION		
Solvent/Remover Aerosol	DODE-OTIEN DIV-04			
	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: 20 mg/kg <sup>[2]</sup>	Eye (human): 50	00 ppm - irritant	
	Inhalation(Mouse) LC50; 44 mg/L4h <sup>[2]</sup>	Eye (rabbit): 20r	ng/24hr -moderate	
	Oral(Rat) LD50; 1738 mg/kg <sup>[1]</sup>	Eye (rabbit): 3.9	5 mg - SEVERE	
acetone		Eye: adverse ef	fect observed (irritating) <sup>[1]</sup>	
		Skin (rabbit): 50	0 mg/24hr - mild	
		Skin (rabbit):395	5mg (open) - mild	
		Skin: no adverse	e effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION		
hydrocarbon propellant	Inhalation(Rat) LC50; 658 mg/l4h <sup>[2]</sup>	Not Available		
Legend:	Value obtained from Europe ECHA Registered Subspecified data extracted from RTECS - Register of To	-	ained from manufacturer's SDS. Unless otherwise	
ACETONE	vesicles, scaling and thickening of the skin. For acetone:	skin irritant or sensitizer, but it remove	ice on contact skin redness, swelling, the production of es fat from the skin, and it also irritates the eye. Animal t exposure to acetone at a level of 2375 mg/cubic	
HYDROCARBON PROPELLANT	No significant acute toxicological data identified in lite	rature search. inhalation of the gas		
Acute Toxicity	~	Carcinogenicity X		
Skin Irritation/Corrosion	<b>→</b>	Reproductivity	×	
Serious Eye Damage/Irritation	<b>✓</b>	STOT - Single Exposure	<b>~</b>	
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure		
Mutagenicity	×	Aspiration Hazard	×	

**Legend:** X − Data either not available or does not fill the criteria for classification → Data available to make classification

Continued...

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### **SECTION 12 Ecological information**

### Toxicity

DUBL-CHEK DR-64 Solvent/Remover Aerosol	Endpoint	Test Duration (hr)	Species		Value	Source
	Not Available	Not Available	Not Available Not Available		Not Available	
acetone	Endpoint	Test Duration (hr)	Species	Valu	e	Source
	NOEC(ECx)	48h	Fish	0.00	1mg/L	4
	EC50	96h	Algae or other aquatic plants	9.87	3-27.684mg/l	4
	LC50	96h	Fish	13.3	03mg/L	4
	EC50	48h	Crustacea	6098	3.4mg/L	5
	Endpoint	Test Duration (hr)	Species		Value	Sourc
	EC50(ECx)	96h	Algae or other aquatic plants		7.71mg/l	2
	EC50	96h	Algae or other aquatic plants		7.71mg/l	2
hydrocarbon propellant	LC50	96h	Fish		24.11mg/l	2
	EC50	96h	Algae or other aquatic plants	Algae or other aquatic plants 7.71mg/l		2
	LC50	96h	Fish	Fish 24.11m		2
	EC50(ECx)	96h	Algae or other aquatic plants		7.71mg/l	2
Legend:	V3.12 (QSAR)	- Aquatic Toxicity Data (Estimated) 4	CHA Registered Substances - Ecotoxicological Infr LUS EPA, Ecotox database - Aquatic Toxicity Data ETI (Japan) - Bioconcentration Data 8. Vendor Data		-	

### DO NOT discharge into sewer or waterways.

For Acetone: log Kow : -0.24; Half-life (hr) air : 312-1896; Half-life (hr) H2O surface water : 20; Henry's atm m3 /mol : 3.67E-05 BOD 5: 0.31-1.76,46-55% COD: 1.12-2.07

ThOD: 2.2BCF: 0.69.

Environmental Fate: The relatively long half-life allows acetone to be transported long distances from its emission source.

Atmospheric Fate: Acetone preferentially locates in the air compartment when released to the environment. In air, acetone is lost by photolysis and reaction with photochemically produced hydroxyl radicals; the estimated half-life of these combined processes is about 22 days. Air Quality Standards: none available.

# Persistence and degradability

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

### Bioaccumulative potential

Ingredient	Bioaccumulation
acetone	LOW (BCF = 0.69)

### Mobility in soil

Ingredient	Mobility
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.
- ▶ Bury residues and emptied aerosol cans at an approved site.

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. Only dispose to the environment if a tolerable exposure limit has been set for the substance.

# **SECTION 14 Transport information**

### Labels Required



Marine Pollutant
HAZCHEM

Not Applicable

# Land transport (UN)

Land transport (ON)			
UN number	1950		
UN proper shipping name	AEROSOLS		
Transport hazard class(es)	Class 2.1 Subrisk Not Applicable		
Packing group	Not Applicable		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions         63; 190; 277; 327; 344; 381           Limited quantity         1000ml		

# Air transport (ICAO-IATA / DGR)

	,		
UN number	1950		
UN proper shipping name	Aerosols, flammable		
	ICAO/IATA Class 2.1		
Transport hazard class(es)	ICAO / IATA Subrisk Not Applicable		
	ERG Code	10L	
Packing group	Not Applicable		
Environmental hazard	Not Applicable		
	Special provisions		A145 A167 A802
	Cargo Only Packing Instructions		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			
UN proper shipping name	AEROSOLS	AEROSOLS		
Transport hazard class(es)		2.1 Not Applicable		
Packing group	Not Applicable			
Environmental hazard	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

Not Applicable

# Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
acetone	Not Available
hydrocarbon propellant	Not Available

# Transport in bulk in accordance with the ICG Code

Product name Ship 1	р Туре
acetone Not Av	Available

	Date
Initial	Data

13/02/2014

### **SDS Version Summary**

Version	Date of Update	Sections Updated
4.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
4.1.2.1	29/04/2021	Regulation Change

### 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

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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TEL (+61 3) 9572 4700.

end of SDS

### **SECTION 12 Ecological information**

### Toxicity

DUBL-CHEK DR-64 Solvent/Remover Aerosol	Endpoint	Test Duration (hr)	Species		Value	Source
	Not Available	Not Available Not Available			Not Available	Not Available
acetone	Endpoint	Test Duration (hr)	Species	Valu	ie	Source
	NOEC(ECx)	48h	Fish	0.00	1mg/L	4
	EC50	96h	Algae or other aquatic plants	9.87	3-27.684mg/l	4
	LC50	96h	Fish	13.3	03mg/L	4
	EC50	48h	Crustacea	6098	6098.4mg/L	
hydrocarbon propellant	Endpoint	Test Duration (hr)	Species		Value	Sourc
	EC50(ECx)	96h	Algae or other aquatic plan	nts	7.71mg/l	2
	EC50	96h	Algae or other aquatic plan	nts	7.71mg/l	2
	LC50	96h	Fish	Fish		2
	EC50	96h	Algae or other aquatic plan	Algae or other aquatic plants 7.7		2
	LC50	96h	Fish	Fish		2
	EC50(ECx)	96h	Algae or other aquatic plan	nts	7.71mg/l	2
Legend:	V3.12 (QSAR)		HA Registered Substances - Ecotoxicologic US EPA, Ecotox database - Aquatic Toxicity	/ Data 5. ECETOC Aq	-	

### DO NOT discharge into sewer or waterways.

For Acetone: log Kow : -0.24; Half-life (hr) air : 312-1896; Half-life (hr) H2O surface water : 20; Henry's atm m3 /mol : 3.67E-05 BOD 5: 0.31-1.76,46-55% COD: 1.12-2.07

ThOD: 2.2BCF: 0.69.

Environmental Fate: The relatively long half-life allows acetone to be transported long distances from its emission source.

Atmospheric Fate: Acetone preferentially locates in the air compartment when released to the environment. In air, acetone is lost by photolysis and reaction with photochemically produced hydroxyl radicals; the estimated half-life of these combined processes is about 22 days. Air Quality Standards: none available.

# Persistence and degradability

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

### Bioaccumulative potential

Ingredient	Bioaccumulation	
acetone	LOW (BCF = 0.69)	

### Mobility in soil

Ingredient	Mobility
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.
- ▶ Bury residues and emptied aerosol cans at an approved site.

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. Only dispose to the environment if a tolerable exposure limit has been set for the substance.

# **SECTION 14 Transport information**