



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Dinitrol 8520 Spray**
Product Use: Paints and varnishes
Restriction of Use: Refer to Section 15

New Zealand Supplier: **Auto Body Equipment**
Address: 17 The Boulevard
Te Rapa, Hamilton, 3200
New Zealand

Telephone: +64 7 849 3514
Email: office@abe.co.nz
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 8 June 2023

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Aerosols (Flammable) – HSR002515

Pictograms:



Flammable



Irritant

Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Aerosol Cat. 1	H222	Extremely flammable aerosol.
	H229	Pressurised container: May burst if heated
Eye irritation Cat. 2	H319	Causes serious eye irritation.
specific target organ toxicity - single exposure Cat 3 - Narcotic Effects	H336	May cause drowsiness or dizziness.

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
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.
P261	Avoid breathing fumes, gas, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

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

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Acetone; propan-2-one; propanone	25 - <50	67-64-1
n-butyl acetate	12.5 - <20	123-86-4
Propane	10 - <12.5	74-98-6
2-methoxy-1-methylethyl acetate	5 - <10	108-65-6
Butane	5 - <10	106-97-8
Isobutane	5 - <10	75-28-5
Isopropanol (isopropyl alcohol)	<2.5	67-63-0
Butan-1-ol; n-butanol	<2.5	71-36-3

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.
If on Skin	Wash with plenty of water and soap. Change contaminated clothing. If skin irritation occurs: Get medical advice/attention.
If Swallowed	If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a physician if needed.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: May cause drowsiness or dizziness. Causes serious eye irritation.

Section 5. Fire Fighting Measures

Hazard Type	Flammable Aerosol
Hazards from decomposition products	Danger of serious damage to health by prolonged exposure. Do not inhale explosion and combustion gases. Use appropriate respiratory protection.
Suitable Extinguishing media	Alcohol resistant foam, Carbon dioxide (CO ₂), Extinguishing powder. Water fog. Do not use high power water jet.
Precautions for firefighters and special protective clothing	In case of fire: Use appropriate respiratory protection. Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Provide adequate ventilation. Clear contaminated areas thoroughly.

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Dispose of waste according to the applicable local regulations detailed in Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Do not spray on an open flame or other ignition source.
- Do not pierce or burn, even after use.
- Heating causes rise in pressure with risk of bursting.
- Avoid breathing fumes, gas, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Wear protective clothing as detailed in Section 8.
- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
- Keep away from food, drink and animal feeding stuffs. When using do not eat or drink.
- Avoid contact with skin and eyes.
- Remove contaminated, saturated clothing immediately.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
- Keep in a cool, well ventilated place and dry away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Provide adequate ventilation as well as local exhaust at critical locations.

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Acetone	[67-64-1]	500	1185	1000	2375
Butane	[106-97-8]	800	1900	-	-
n-Butyl acetate	[123-86-4]	150	713	200	950
Isopropyl alcohol	[67-63-0]	400	983	500	1230
n-Butyl alcohol	[71-36-3]	Ceiling	150	-	50

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
67-64-1	acetone; propan-2-one; propanone			
	worker DNEL, long-term	inhalation	systemic	1210 mg/m ³
	worker DNEL, acute	inhalation	local	2420 mg/m ³
	worker DNEL, long-term	dermal	systemic	186 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	200 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	62 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	62 mg/kg bw/day
123-86-4	n-butyl acetate			
	worker DNEL, long-term	inhalation	systemic	480 mg/m ³
	worker DNEL, acute	inhalation	systemic	960 mg/m ³
	worker DNEL, long-term	inhalation	local	480 mg/m ³
	worker DNEL, acute	inhalation	local	960 mg/m ³
	Consumer DNEL, long-term	inhalation	systemic	102,34 mg/m ³
	Consumer DNEL, acute	inhalation	systemic	859,7 mg/m ³
	Consumer DNEL, long-term	inhalation	local	102,34 mg/m ³
	Consumer DNEL, acute	inhalation	local	859,7 mg/m ³
108-65-6	2-methoxy-1-methylethyl acetate			
	worker DNEL, long-term	inhalation	systemic	275 mg/m ³
	worker DNEL, acute	inhalation	local	550 mg/m ³
	worker DNEL, long-term	dermal	systemic	796 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	33 mg/m ³
	Consumer DNEL, acute	inhalation	local	33 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	320 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	36 mg/kg bw/day
67-63-0	isopropanol (isopropyl alcohol)			
	Consumer DNEL, long-term	inhalation	systemic	89 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	319 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	26 mg/kg bw/day
	worker DNEL, long-term	dermal	systemic	888 mg/kg bw/day
	worker DNEL, long-term	inhalation	systemic	500 mg/m ³
71-36-3	butan-1-ol; n-butanol			
	worker DNEL, long-term	inhalation	local	310 mg/m ³

Consumer DNEL, long-term	oral	systemic	3,125 mg/kg
Consumer DNEL, long-term	inhalation	local	55 mg/m ³

PNEC values

CAS No	Substance	Value
Environmental compartment		
67-64-1	acetone; propan-2-one; propanone	
Freshwater		10,6 mg/l
Marine water		1,06 mg/l
Freshwater sediment		30,4 mg/kg
Marine sediment		3,04 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		29,5 mg/kg
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,0903 mg/kg
108-65-6	2-methoxy-1-methylethyl acetate	
Freshwater		0,635 mg/l
Marine water		0,0635 mg/l
Freshwater sediment		3,29 mg/kg
Marine sediment		0,329 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,290 mg/kg
67-63-0	isopropanol (isopropyl alcohol)	
Freshwater		140,9 mg/l
Marine water		140,9 mg/l
Freshwater sediment		552 mg/kg
Marine sediment		552 mg/kg
Secondary poisoning		160 mg/kg
Micro-organisms in sewage treatment plants (STP)		2251 mg/l
Soil		28 mg/kg
71-36-3	butan-1-ol; n-butanol	
Freshwater		0,082 mg/l
Marine water		0,0082 mg/l
Freshwater sediment		0,178 mg/kg
Marine sediment		0,0178 mg/kg
Micro-organisms in sewage treatment plants (STP)		2476 mg/l
Soil		0,015 mg/kg

Engineering Controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Personal Protection Equipment



Eyes	Eye glasses with side protection (EN 166).
Hands	Tested protective gloves must be worn (EN ISO 374): FKM (fluoro rubber), Breakthrough time: PVA (Polyvinyl alcohol), Breakthrough time: NBR (Nitrile rubber), Breakthrough time: Butyl caoutchouc (butyl rubber), Breakthrough time: For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Protective gloves have to be replaced at the first sign of deterioration. Protect skin by using skin protective cream.
Skin	Wear anti-static footwear and clothing.
Respiratory	Work in well-ventilated zones or use proper respiratory protection. gas filtering equipment (EN 141)., Filter material/medium: A2/P3

Section 9 Physical and Chemical Properties

Form	Aerosol
Colour	Black
Odour	Like solvent
Odour Threshold	Not available
pH @20°C	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Flammable Aerosol
Upper and Lower Explosive Limits	1.2 Vol% - 13.0 Vol %
Vapour Pressure @20°C	3500 hPa
Density@ 20°C	0.7 g/cm ³
Specific Gravity	Not available
Water Solubility	The study does not need to be conducted because the substance is known to be insoluble in water.
Partition Coefficient:	Not available
Auto-Ignition Temperature	333°C
Decomposition Temperature	Not available
Kinematic Viscosity @20°C	Not available
Particle Characteristics	Not available
Solvent content	91.5% Water content: 0.3%
Solids content	7.9%

Section 10. Stability and Reactivity

Stability of Substance	The product is stable under storage at normal ambient temperatures.
Possibility of hazardous reactions	No known hazardous reactions.
Conditions to Avoid	Keep away from heat. Ignition hazard.
Incompatible Materials	None known.

Hazardous Decomposition Products

No known hazardous decomposition products.

Section 11 Toxicological Information**Acute Effects:**

Swallowed	Does not contain any ingredients classified as acutely toxic. ATE (oral) 26781,0 mg/kg
Dermal	Does not contain any ingredients classified as acutely toxic.
Inhalation	Does not contain any ingredients classified as acutely toxic.
Eye	Causes serious eye irritation.
Skin	Does not contain any ingredients classified as an skin irritant/corrosive.

Chronic Effects:

Carcinogenicity	Does not contain any ingredients classified as carcinogenic.
Reproductive Toxicity	Does not contain any ingredients classified as toxic for reproduction.
Germ Cell Mutagenicity	Does not contain any ingredients classified as mutagenic.
Aspiration	Does not contain any ingredients classified as Asp Tox.
STOT/SE	Does not contain any ingredients classified as STOT SE.
STOT/RE	May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

Acute Toxicity for components:

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	
67-64-1	acetone; propan-2-one; propanone				
	oral	LD50 5800 mg/kg	Rat	RTECS	
	dermal	LD50 7426-15800 mg/kg	Rabbit	IUCLID	
	inhalation (4 h) vapour	LC50 76 mg/l	Rat		
123-86-4	n-butyl acetate				
	oral	LD50 8800 mg/kg	Rat		
	dermal	LD50 > 5000 mg/kg	Rabbit		
	inhalation (4 h) dust/mist	LC50 >21 mg/l	Rat		
108-65-6	2-methoxy-1-methylethyl acetate				
	oral	LD50 8500 mg/kg	Rat		
	inhalation (4 h) vapour	LC50 35,7 mg/l	Rat		
106-97-8	butane				
	inhalation (4 h) gas	LC50 273000 ppm	Rat	GESTIS	
67-63-0	isopropanol (isopropyl alcohol)				
	oral	LD50 4570 mg/kg	Rat		
	dermal	LD50 13400 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 30 mg/l	Rat		
71-36-3	butan-1-ol; n-butanol				
	oral	LD50 790 mg/kg	Rat	GESTIS	

	dermal	LD50 mg/kg	3400	Rabbit	GSETIS	
	inhalation (4 h) dust/mist	LC50	>17 mg/l	Rat		

Section 12. Ecotoxicological Information

Based on available data, the classification criteria are not met.

Toxicity for components:

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
67-64-1	acetone; propan-2-one; propanone					
	Acute fish toxicity	LC50 mg/l	5540	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50 mg/l	8800	48 h	Daphnia Magna	
	Algae toxicity	NOEC mg/l	4740	2 d	Selenastrum capricornutum	
123-86-4	n-butyl acetate					
	Acute fish toxicity	LC50	62 mg/l	96 h	Leuciscus idus (golden orfe)	
	Acute algae toxicity	ErC50	674 mg/l	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50	44 mg/l	48 h	Daphnia magna (Big water flea)	
71-36-3	butan-1-ol; n-butanol					
	Acute fish toxicity	LC50 mg/l	1740	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50 mg/l	>500	72 h	Scenedesmus subspicatus	
	Acute crustacea toxicity	EC50 mg/l	1980	48 h		GESTIS
	Acute bacteria toxicity	(EC50 mg/l)	2250		Pseudomonas putida	16 h

Persistence and Degradability:

There are no data available on the mixture itself.

CAS No	Chemical name			Value	d	Source
	Method					
	Evaluation					
67-64-1	acetone; propan-2-one; propanone					
	OECD 301 B		91%		28	
	Readily biodegradable (according to OECD criteria).					
123-86-4	n-butyl acetate					
	OECD 301D/ EEC 92/69/V, C.4-E		83%		28	
	Readily biodegradable (according to OECD criteria).					
108-65-6	2-methoxy-1-methylethyl acetate					
	OECD 302 B		>90 %			
	Readily biodegradable (according to OECD criteria).					

Bioaccumulative Potential:

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	acetone; propan-2-one; propanone	-0,24
123-86-4	n-butyl acetate	2,3
108-65-6	2-methoxy-1-methylethyl acetate	0,56
106-97-8	butane	2,89

67-63-0	isopropanol (isopropyl alcohol)	0,05
71-36-3	butan-1-ol; n-butanol	0,88

BCF

CAS No	Chemical name	BCF	Species
67-64-1	acetone; propan-2-one; propanone	<10	

Mobility in Soil:

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Section 13. Disposal Considerations

Disposal Method:

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – "Flammable Aerosol" and that the label also has the Flammable Pictogram, and the business name, address, and phone number.

Precautions or methods to avoid: Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021



Road, Rail, Sea and Air Transport

UN No	1950
Class - Primary	2
Proper Shipping Name	AEROSOLS
Marine Pollutant	No
Special Provisions	If the product's individual container is below 1L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

New Zealand:

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Aerosols (Flammable) – HSR002515

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	3000L (AWC)
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	3000L (AWC)
Emergency Response Plan	3000L (AWC)
Secondary Containment	3000L (AWC)

Fire Extinguishers	3000L (AWC) - require 1X
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact Auto Body Equipment, if further information is required.

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