



## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **Dinitrol 443 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: 5 December 2022

### 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



Asp/ Chronic



Ecotoxic

Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Aerosol Cat. 1	H222	Extremely flammable aerosol.
Aerosol	H229	Pressurised container: may burst if heated.
Aspiration hazard Cat. 1	H304	May be fatal if swallowed and enters airways.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Narcotic effects	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment acute/chronic Cat. 1	H400/H410	Very toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.

P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P261	Avoid breathing fumes, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P391	Collect spillage.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
dimethyl ether	25 - <50	115-10-6
zinc powder - zinc dust (stabilized)	25 - <50	7440-66-6
acetone; propan-2-one; propanone	5 - <10	67-64-1
Hydrocarbons, C9, aromatics	5 - <10	128601-23-0
reaction mass of ethylbenzene and xylene	5 - <10	EC 905-588-0
zinc oxide	<2.5	1314-13-2

### 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. If eye irritation persists: Get medical advice.
If on Skin	Rinse skin with water/shower. If skin irritation occurs: get medical advice/attention.
If Swallowed	Do NOT induce vomiting. Rinse mouth. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Immediately call a POISON CENTER or doctor/physician.
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.
<b>Ingestion:</b>	May be fatal if swallowed and enters airways.
<b>Inhalation:</b>	Not applicable.
<b>Skin:</b>	Not applicable.
<b>Eye:</b>	Causes serious eye irritation.

## Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Flammable Aerosol
<b>Hazards from products</b>	Do not inhale explosion and combustion gases. Use appropriate respiratory protection.
<b>Suitable Extinguishing media</b>	Carbon dioxide (CO <sub>2</sub> ), Extinguishing powder, alcohol resistant foam. Coordinate fire-fighting measures to the fire surroundings.
<b>Precautions for firefighters and special protective clothing</b>	Wear full protective device. Use water spray jet to protect personnel and to cool endangered containers. 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.
<b>HAZCHEM CODE</b>	<b>2YE</b>

## Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel. Avoid contact with skin, eyes and clothes. Remove all sources of ignition. Provide adequate ventilation. Avoid breathing fumes, gas, mist, vapours or spray.

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 label before use.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Do not spray on an open flame or other ignition source.
- Pressurized container: Do not pierce or burn, even after use.
- Avoid breathing fumes, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area. 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.
- Take precautionary measures against static discharges.
- Keep away from sources of ignition - No smoking.
- Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.
- Heating causes rise in pressure with risk of bursting.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Keep away from food, drink and animal feeding stuffs.
- Remove contaminated, saturated clothing immediately.

- Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

### Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed in a cool place.
- Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
- Do not keep the container sealed. Keep container dry.
- Keep away from heat. Protect from direct sunlight.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Dimethylether	[115-10-6]	400	766	500	958
Acetone	[67-64-1]	500	1185	1000	2375
Zinc oxide	[1314-13-2]	2	5	-	-

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 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 <sup>3</sup>
	worker DNEL, acute	inhalation	local	2420 mg/m <sup>3</sup>
	worker DNEL, long-term	dermal	systemic	186 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	200 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	62 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	62 mg/kg bw/day
128601-23-0	Hydrocarbons, C9, aromatics			
	worker DNEL, long-term	inhalation	systemic	150 mg/m <sup>3</sup>
	worker DNEL, long-term	dermal	systemic	25 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	32 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	11 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	11 mg/kg bw/day
	reaction mass of ethylbenzene and xylene			
	worker DNEL, long-term	inhalation	systemic	211 mg/m <sup>3</sup>
	worker DNEL, long-term	inhalation	local	221 mg/m <sup>3</sup>
	worker DNEL, acute	inhalation	systemic	442 mg/m <sup>3</sup>
	worker DNEL, long-term	dermal	systemic	180 mg/kg bw/day
	worker DNEL, acute	inhalation	local	289 mg/m <sup>3</sup>
	Consumer DNEL, long-term	oral	systemic	1,6 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	14,8 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	local	65,3 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	systemic	260 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	local	260 mg/m <sup>3</sup>

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SDS Prepared by: Technical Compliance Consultants (NZ) Ltd  
Tel: 64 9 475 5240 www.techcomp.co.nz

1314-13-2 zinc oxide			
worker DNEL, long-term	inhalation	systemic	5 mg/m <sup>3</sup>
worker DNEL, long-term	inhalation	local	0,5 mg/m <sup>3</sup>
worker DNEL, long-term	dermal	systemic	83 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	2,5 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	83 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,83 mg/kg

### PNEC Values:

CAS No	Substance	Environmental compartment	Value
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
	reaction mass of ethylbenzene and xylene		
	Freshwater		0,327 mg/l
	Marine water		0,327 mg/l
	Freshwater sediment		12,64 mg/kg
	Marine sediment		12,64 mg/kg
	Soil		2,31 mg/kg
1314-13-2	zinc oxide		
	Freshwater		0,0206 mg/l
	Marine water		0,0061 mg/l
	Freshwater sediment		117,8 mg/kg
	Marine sediment		56,5 mg/kg
	Micro-organisms in sewage treatment plants (STP)		0,100 mg/l
	Soil		35,6 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



<b>Eyes</b>	Eye glasses with side protection (EN 166).
<b>Skin</b>	Tested protective gloves must be worn (EN ISO 374): FKM (fluoro rubber), Breakthrough time: 120 min. Butyl caoutchouc (butyl rubber), Breakthrough time: 120 min. 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. Wear anti-static footwear and clothing.
<b>Respiratory</b>	Work in well-ventilated zones or use proper respiratory protection. gas

**Section 9 Physical and Chemical Properties**

<b>Form</b>	Aerosol
<b>Colour</b>	Grey
<b>Odour</b>	Characteristic
<b>Odour Threshold</b>	Not available
<b>pH @20°C</b>	Not available
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Flammable Aerosol
<b>Upper and Lower Explosive Limits</b>	3.3 Vol% - 26.2 Vol %
<b>Vapour Pressure @20°C</b>	4000 hPa
<b>Density@ 20°C</b>	1.1 g/cm <sup>3</sup>
<b>Specific Gravity</b>	Not available
<b>Water Solubility</b>	The study does not need to be conducted because the substance is known to be insoluble in water.
<b>Partition Coefficient:</b>	Not available
<b>Ignition Temperature</b>	>400°C
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity @20°C</b>	Not available
<b>Particle Characteristics</b>	Not available
<b>Solvent content</b>	59.2%
<b>Solids content</b>	40.7%

**Section 10. Stability and Reactivity**

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No hazardous reaction when handled and stored according to provisions.
<b>Conditions to Avoid</b>	Keep away from heat. Ignition hazard.
<b>Incompatible Materials</b>	None known.
<b>Hazardous Decomposition Products</b>	No dangerous decomposition products known.

**Section 11 Toxicological Information****Acute Effects:**

<b>Swallowed</b>	Not applicable.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Causes serious eye irritation.
<b>Skin</b>	Not applicable.

**Chronic Effects:**

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	May be fatal if swallowed and enters airways.
<b>STOT/SE</b>	Not applicable.

**Acute Toxicity for components:**

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
67-64-1	acetone; propan-2-one; propanone					
	oral	LD50 mg/kg	5800	Rat	RTECS	
	dermal	LD50 mg/kg	7426- 15800	Rabbit	IUCLID	
	inhalation (4 h) vapour	LC50	76 mg/l	Rat		
128601-23-0	Hydrocarbons, C9, aromatics					
	oral	LD50 mg/kg	>6800	Rat		
	dermal	LD50 mg/kg	>2000	Rabbit		
	inhalation (4 h) vapour	LC50	10,2 mg/l	Rat		
	reaction mass of ethylbenzene and xylene					
	oral	LD50 mg/kg	4300	Rat		
	dermal	LD50 mg/kg	> 2000	Rabbit		
	inhalation (4 h) vapour	LC50	20 mg/l	Rat		
	inhalation dust/mist	ATE	1,5 mg/l			
1314-13-2	zinc oxide					
	oral	LD50 mg/kg	> 5000	Rat	IUCLID	
	dermal	LD50 mg/kg	> 2000	Rat		
	inhalation (4 h) dust/mist	LC50	> 5,7	Rat		

**Section 12. Ecotoxicological Information**

Very toxic to aquatic life with long lasting effects.

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	
128601-23-0	Hydrocarbons, C9, aromatics					
	Acute fish toxicity	LC50	9,2 mg/l	96 h	Onchorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	2,9 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	3,2 mg/l	48 h	Daphnia magna (Big water flea)	
1314-13-2	zinc oxide					
	Acute fish toxicity	LC50 mg/l	1120	96 h	fish	GESTIS
	Acute crustacea toxicity	EC50 mg/l	12,3	48 h		GESTIS

**Persistence and Degradability:**

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No data for the product itself

CAS No	Chemical name	Value	Method
	Method		Value
	Evaluation		
67-64-1	acetone; propan-2-one; propanone		
	OECD 301 B	91%	28
	Readily biodegradable (according to OECD criteria).		

### **Bioaccumulative Potential:**

No data for the product itself

#### **Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
115-10-6	dimethyl ether	0,1
67-64-1	acetone; propan-2-one; propanone	-0,24

#### **BCF**

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

### **Mobility in Soil:**

No data available for the product itself.

## **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 – "Spilled Flammable Aerosol, Ecotoxic" and that the label also has the Flammable and Eco toxic Pictogram, and the business name, address, and phone number.

**Precautions or methods to avoid:** Must not be disposed together with household garbage. Avoid release to the environment.

## **Section 14 Transport Information**

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020**



### **Road and Rail Transport**

UN No: 1950  
Class-primary: 2  
Proper Shipping Name: AEROSOLS, ENVIRONMENTALLY HAZARDOUS

### **Air Transport**

UN No: 1950  
Class-primary: 2  
Proper Shipping Name: AEROSOLS, ENVIRONMENTALLY HAZARDOUS

### **Marine Transport**

UN No: 1950  
Class-primary: 2  
Proper Shipping Name: AEROSOLS, ENVIRONMENTALLY HAZARDOUS  
Marine Pollutant: Yes

### **Special Provisions: 63, 190, 277, 344, 327**

**Limited Quantity:** For aerosols containing toxic substances the limited quantity is 120ml. For all other aerosols the limited quantity is 1000ml.



**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

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	3000L (AWC)
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	1000L
Secondary Containment	1000L
Fire Extinguishers	3000 (AWC) - require 1X
Restriction of Use	Only use for the intended purpose.

**Section 16****Other Information****Glossary**

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	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

The information herein is given in good faith, but no warranty, express or implied is made.

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

Issue Date:

5 December 2022

Review Date:

5 December 2027