



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Dinitrol 8550 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: 28 April 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



Corrosive

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
Skin irritation Cat. 2	H315	Causes skin irritation.
specific target organ toxicity – single exposure Cat. 3 respiratory tract irritation	H335	May cause respiratory irritation.
specific target organ toxicity – single exposure Cat 3 - Narcotic Effects	H336	May cause drowsiness or dizziness.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment chronic Cat. 3	H412	Harmful to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
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.
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.
P310	Immediately call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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.
P332 + P313	If skin irritation occurs: 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	50-75	115-10-6
Hydrocarbons, C9, aromatics	10-12.5	64742-95-6
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	5-10	64742-49-0
Butan-1-ol; n-butanol	5-10	71-36-3
Reaction mass of ethylbenzene and xylene	5-10	EC No: 905-588-0
Ethylbenzene	<2.5	100-41-4

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/Soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

If Swallowed If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately. Do NOT induce vomiting. Put victim at rest, cover with a blanket and keep warm.

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:

Swallowed: Not applicable.

Inhalation: May cause respiratory irritation. May cause drowsiness or dizziness.

Skin: Causes skin irritation.

Eyes: Causes serious eye damage.

Section 5. Fire Fighting Measures

Hazard Type	Flammable Aerosol
Hazards from 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: Wear self-contained breathing apparatus. 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. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

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.
- Do not breathe fumes, gas, mist, vapours or spray.
- Heating causes rise in pressure with risk of bursting.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.

Product Name: Dinitrol 8550 Spray
Date of SDS: 28 April 2023

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

- Avoid release to the environment.
- 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.
- Remove contaminated, saturated clothing immediately.
- 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 and dry.
- Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
- Keep in a cool, away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Ethyl benzene	[100-41-4]	20	88	40	176
Dimethylether	[115-10-6]	400	766	500	958
n-Butyl alcohol	[71-36-3] Ceiling	50	150		

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	DNEL type	Exposure route	Effect	Value
64742-49-0 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane					
		worker DNEL, long-term	inhalation	systemic	2035 mg/m ³
		worker DNEL, long-term	dermal	systemic	773 mg/kg bw/day
		Consumer DNEL, long-term	inhalation	systemic	608 mg/m ³
		Consumer DNEL, long-term	dermal	systemic	699 mg/kg bw/day
		Consumer DNEL, long-term	oral	systemic	699 mg/kg bw/day
64742-95-6 Hydrocarbons, C9, aromatics					
		worker DNEL, long-term	inhalation	systemic	150 mg/m ³
		worker DNEL, long-term	dermal	systemic	25 mg/kg bw/day
		Consumer DNEL, long-term	inhalation	systemic	32 mg/m ³
		Consumer DNEL, long-term	dermal	systemic	11 mg/kg bw/day
		Consumer DNEL, long-term	oral	systemic	11 mg/kg bw/day
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 bw/day
		Consumer DNEL, long-term	inhalation	local	55 mg/m ³
reaction mass of ethylbenzene and xylene					
		worker DNEL, long-term	inhalation	systemic	211 mg/m ³

worker DNEL, long-term	inhalation	local	221 mg/m ³
worker DNEL, acute	inhalation	systemic	442 mg/m ³
worker DNEL, long-term	dermal	systemic	180 mg/kg bw/day
worker DNEL, acute	inhalation	local	289 mg/m ³
Consumer DNEL, long-term	oral	systemic	1,6 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	14,8 mg/m ³
Consumer DNEL, long-term	inhalation	local	65,3 mg/m ³
Consumer DNEL, acute	inhalation	systemic	260 mg/m ³
Consumer DNEL, acute	inhalation	local	260 mg/m ³
100-41-4 ethylbenzene			
worker DNEL, long-term	inhalation	systemic	77 mg/m ³
worker DNEL, long-term	inhalation	local	293 mg/m ³
worker DNEL, long-term	dermal	systemic	180 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	15 mg/m ³
Consumer DNEL, long-term	oral	systemic	1,6 mg/kg bw/day

PNEC values

CAS No	Substance	Value
Environmental compartment		
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
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
100-41-4 ethylbenzene		
Freshwater		0,1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		13,7 mg/kg
Marine sediment		1,37 mg/kg
Secondary poisoning		0,02 mg/kg
Micro-organisms in sewage treatment plants (STP)		9,6 mg/l
Soil		2,68 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	Transparent
Odour	Characteristic
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	0.7 Vol% - 26.2 Vol %
Vapour Pressure @20°C	4000 hPa
Density@ 20°C	0,8 g/cm ³
Specific Gravity	Not available
Water Solubility	Insoluble in water.
Partition Coefficient:	Not available
Auto-Ignition Temperature	>200°C
Decomposition Temperature	Not available
Kinematic Viscosity @20°C	Not available
Particle Characteristics	Not available
Solvent content	88.3%
Solids content	11.7%

Section 10. Stability and Reactivity

Stability of Substance	The product is stable under storage at normal ambient temperatures.
Possibility of hazardous reactions	No hazardous reaction when handled and stored according to provisions.
Conditions to Avoid	Keep away from heat. Ignition hazard.
Incompatible Materials	None known.
Hazardous Decomposition Products	Carbon monoxide.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. ATE (oral) 2282,2 mg/kg
Dermal	Not applicable.

Inhalation	May cause respiratory irritation. ATE (inhalation vapour) 84,38 mg/l; ATE (inhalation dust/mist) 6,500 mg/l
Eye	Causes serious eye damage.
Skin	Causes skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	May cause drowsiness or dizziness.

Acute Toxicity for components:

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1330-20-7	xylene				
	oral	LD50 4300 mg/kg	Rat	GESTIS	
	dermal	LD50 >1700 mg/kg	Rabbit	GESTIS	
	inhalation gas	ATE 4500 ppm			
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane				
	oral	LD50 > 5840 mg/kg	Rat		
	dermal	LD50 >2920 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 > 25 mg/l	Rat		
141-78-6	ethyl acetate				
	oral	LD50 > 2000 mg/kg	Rabbit		
	dermal	LD50 >20000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 30 mg/l	Rat		
64742-49-0	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics				
	oral	LD50 4951 mg/kg	Rat		
	dermal	LD50 5000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 4951 mg/l	Rat		
64-17-5	Ethanol				
	oral	LD50 10470 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 > 50 mg/l	Rat		
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)				
	oral	LD50 >15000 mg/kg	Rat		
	dermal	LD50 >3400 mg/kg	Rat		
1330-20-7	xylene				
	oral	LD50 8700 mg/kg	Rat		

	dermal	LD50 mg/kg	2000	Rabbit		
	inhalation (4 h) vapour	LC50 mg/l	10-20	Rat		
	inhalation gas	ATE ppm	4500			
8050-09-7	Rosin, colophony					
	oral	LD50 mg/kg	2800	Rat		
	dermal	LD50 mg/kg	>2000	Rat		
100-41-4	ethylbenzene					
	oral	LD50 mg/kg	3500	Rat	GESTIS	
	dermal	LD50 mg/kg	15400	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50	17,2 mg/l	Rat		
	inhalation gas	ATE ppm	4500			

Section 12. Ecotoxicological Information

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64742-95-6	Hydrocarbons, C9, aromatics					
	Acute fish toxicity	LC50	9,2 mg/l	96 h	Oncorhynchus 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)	
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane					
	Acute fish toxicity	LC50 mg/l	10-100	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50 mg/l	30-100	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 mg/l	> 1 - 10	48 h	Daphnia magna (Big water flea)	
	Fish toxicity	NOEC mg/l	2,045	28 d	Oncorhynchus mykiss (Rainbow trout)	
	Crustacea toxicity	NOEC	1 mg/l	21 d	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	
	Method	value
	Evaluation	d Source

64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
	OECD 301F	98%	28
	Readily biodegradable (according to OECD criteria).		

Bioaccumulative Potential:

There are no data available on the mixture itself.

CAS No	Chemical name	Log Pow
115-10-6	dimethyl ether	0,1
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	3,4-5,2
71-36-3	butan-1-ol; n-butanol	0,88
100-41-4	ethylbenzene	3,15

Mobility in Soil:

There are no data available on the mixture itself.

Do not allow to enter waterways.

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, Ecotoxic" 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 waterways.

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	1000L
Emergency Response Plan	1000L
Secondary Containment	1000L
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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