SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product:	**Dinitrol 1000**
Product Use:	Anti-corrosive coating
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:	4 August 2023

Section 2. Hazards Identification

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

EPA Approval No: Corrosive Inhibitor (Flammable) – HSR002548

Pictograms:

Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Flammable Liquids Cat. 3	H226	Flammable liquid and vapour.
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.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical, ventilating and lighting] equipment
P242	Use non-sparking tools.
P243	Take action to prevent static discharge.

P261	Avoid breathing fumes, gas, mist, vapours or spray.
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.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P370 + P378	In case of fire: Use sand, extinguishing powder or alcohol resistant foam to extinguish.

Storage Code	**Storage Statement**
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

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

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	**Wt%**	**CAS NUMBER.**
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	45-<50	64742-48-9
Calcium sulfonate	5-<10	61789-86-4

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. Seek medical advice immediately.

If on Skin — Wash with plenty of water/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). 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 drowsiness or dizziness.
Skin: Not applicable.
Eyes: Not applicable.

Section 5. Fire Fighting Measures

Hazard Type	Flammable Liquid or vapour.
Hazards from products	In case of fire may be liberated: Gases/vapours, toxic
Suitable Extinguishing media	alcohol resistant foam, Carbon dioxide (CO2), Extinguishing powder. Water fog. Do not use high power water jet.
Precautions for firefighters and special protective clothing	Wear respiratory protection. 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	**3Y**

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 uncontrolled discharge of product into the environment.
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.
- Keep container tightly closed.
- Ground and bond container and receiving equipment.
- Use explosion-proof [electrical, ventilating and lighting] equipment
- Use non-sparking tools.
- Take action to prevent static discharge.
- Avoid breathing fumes, gas, mist, vapours or spray.
- 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.
- 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.
- Store locked up.
- Store in a well-ventilated place.
- Keep container tightly closed.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

	TWA	**STEL**

Substance	ppm	mg/m³	ppm	mg/m³

No ingredients have exposure limits

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
64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics			
Consumer DNEL, long-term	oral	systemic	125 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	208 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	125 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	871 mg/m³
Consumer DNEL, long-term	inhalation	systemic	185 mg/m³
61789-86-4 calcium sulfonate			
Worker DNEL, long-term	dermal	systemic	3,33 mg/kg
Worker DNEL, long-term	dermal	local	1,03 mg/cm²
Consumer DNEL, long-term	inhalation	systemic	2,9 mg/m³
Consumer DNEL, long-term	dermal	systemic	1,667 mg/kg
Consumer DNEL, long-term	dermal	local	0,513 mg/cm²
Consumer DNEL, long-term	oral	systemic	0,8333 mg/kg
Worker DNEL, long-term	inhalation	systemic	11,75 mg/m³

PNEC values

CAS No Substance	
Environmental compartment	Value
61789-86-4 calcium sulfonate	
Freshwater	1 mg/l
Marine water	1 mg/l
Freshwater sediment	226000000 mg/kg
Marine sediment	226000000 mg/kg
Secondary poisoning	16667 mg/kg
Micro-organisms in sewage treatment plants (STP)	1000 mg/l
Soil	271000000 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:480 min NBR (Nitrile rubber), Breakthrough time: 480 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.
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: A

Section 9 Physical and Chemical Properties

Form	Liquid
Colour	Transparent beige
Odour	Characteristic
Odour Threshold	Not available
pH @20^{0}C	Not available
Boiling Point	154 - 193^{0}C
Melting Point	Not available
Freezing Point	Not available
Flash Point	41^{0}C
Flammability	Flammable Liquid or Vapour
Upper and Lower Explosive Limits	0.6 Vol% - 7 Vol %
Vapour Pressure @20^{0}C	3 hPa
Density@ 20^{0}C	0.83 g/cm^3 DIN 51757
Specific Gravity	Not available
Water Solubility	Not available
Partition Coefficient:	Not available
Auto-Ignition Temperature	>200^{0}C
Decomposition Temperature	Not available
Viscosity /Dynamic	Not available
Particle Characteristics	Not available
Solvent content	43.4%
Solids content	55.5 %
Flow time @ 20^{0}C	22 sec. 4 DIN EN ISO 2431

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 and sources of ignition.
Incompatible Materials	None known.
Hazardous Decomposition Products	Carbon monoxide.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.

Skin	Not applicable.

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. Repeated exposure may cause skin dryness or cracking.

Acute Toxicity for components:

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics				
	oral	LD50 > 5000 mg/kg	Rat		
	dermal	LD50 > 5000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 5000 mg/l	Rat		
61789-86-4	calcium sulfonate				
	oral	LD50 5000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rat		

Section 12. Ecotoxicological Information

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

Persistence and Degradability:

There are no data available on the mixture itself.

CAS No	Chemical name		
	Method	Value	d
	Evaluation		
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		
	Readily biodegradable (according to OECD criteria).	80 %	
	Readily biodegradable (according to OECD criteria).		

Bioaccumulative Potential:

There are no data available on the mixture itself.

CAS No	Chemical name	Log Pow
108-32-7	propylene carbonate	-0.41

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 Liquid" and that the label also has the Flammable Pictogram, and the business name, address, and phone number.

Precautions or methods to avoid: None known.

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	1139
Class - Primary	3
Packing Group	III
Proper Shipping Name	COATING SOLUTIONS
Marine Pollutant	NO
Special Provisions	If the product's individual container is below 5L, 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: Corrosive Inhibitor (Flammable) – HSR002548

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	500L (>5L), 1500L(<5L), 250L open
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	10 000L
Secondary Containment	10 000L
Fire Extinguishers	500L - require 2X
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.

Issue Date: 4 August 2023 Review Date: 4 August 2028