



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Dinitrol 447**
Product Use: Auto Body Protection Agent
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: 10 April 2018

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: Surface Coatings and Colourants (Flammable) – HSR002662

Pictograms



Flammable Irritant Chronic Ecotoxic

Signal Word: **DANGER**

HSNO Classes	Hazard Code	Hazard Statement	GHS Category
3.1B	H225	Highly flammable liquid and vapour.	Flam. Liq. 2
6.1E (dermal)	H313	May be harmful in contact with skin.	Acute Tox. 5
6.1E (asp)	H304	May be fatal if swallowed and enters airways.	Asp. Tox. 1
6.3A	H315	Causes skin irritation.	Skin Irrit. 2
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
6.9N	H336	May cause drowsiness or dizziness.	STOT SE 3
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe fume, vapours or spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective PPE as described in Section 8
P281	Use personal protective equipment as required.

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.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use CO ₂ , powder or water spray for extinction.

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.
Naphtha (petroleum), hydrotreated light	25-<50	64742-49-0
Xylene, mixed isomers, pure	10-<25	1330-20-7
Gom Resin	5-<10	8050-09-7
Ethyl acetate	1-<5	141-78-6
Naphtha (petroleum), hydrotreated heavy	1-<5	64742-48-9
Solvent naphtha (petroleum), light arom.	1-<5	64742-95-6
Ethanol	1-<5	64-17-5
Trizinc bis(orthophosphate)	<1	7779-90-0
n-Hexane	<1	110-54-3

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	Take off contaminated clothing and wash before re-use. Immediately wash with water and soap and rinse thoroughly. If skin irritation or rash occurs: get medical advice/attention.
If Swallowed	Rinse mouth. Do not induce vomiting. Wash out mouth thoroughly with water. 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. IF SWALLOWED: 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:

Ingestion:	May be fatal if swallowed and enters airways(Aspiration)
Inhalation:	Not applicable
Skin:	Causes skin irritation and may cause an allergic reaction.
Eye:	Causes severe eye irritation.
Chronic:	Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness.

Section 5. Fire Fighting Measures

Hazard Type	Flammable
Hazards from decomposition products	Carbon monoxide.
Suitable Extinguishing media	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Do not use water with full jet.
Precautions for firefighters and special protective clothing	Protective equipment: Wear self-contained respiratory protective device. Cool endangered receptacles with water spray.
HAZCHEM CODE	3YE

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel. Ensure adequate ventilation. Keep away from ignition sources

Do not allow product to reach sewage system or any water course.
Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Dispose of waste according to the applicable local and national regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Keep out of reach of children.
- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical, ventilating and lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe fume, vapours or spray.
- 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.
- Avoid release to the environment.
- Wear protective PPE as described in Section 8
- Use personal protective equipment as required.

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.
- Store in a well-ventilated place. Keep cool.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Xylene (o-, m-, p-isomers) [1330-20-7]	50	217	-	-
Ethyl acetate [141-78-6]	200	720	-	-
Ethanol (Ethyl alcohol) [64-17-5]	1,000	1,880	-	-
Hexane (n-Hexane) (bio)	20	72	-	-
Other isomers [110-54-3]	500	1,760	1,000	3,500

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 NOV 2017 9TH EDITION.

Engineering Controls

Ensure there is adequate ventilation available.

Personal Protection Equipment



Eyes	Tightly sealed goggles with side shields. Avoid wearing contact lenses.
Hands	Material of gloves: PVA gloves Penetration time of glove material > 480 min. Not suitable are gloves made of the following materials: Natural rubber

Skin	Body protection: Protective work clothing
Respiratory	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Filter A/P2
General	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the skin. Avoid close or long term contact with the skin. Avoid contact with the eyes and skin.

Section 9 Physical and Chemical Properties

Form	Viscous
Colour	Black
Odour	Characteristic
Odour Threshold	Not available
pH	Not available
Boiling Point	88 °C
Melting Point	Not available
Freezing Point	Not available
Flash Point	-12 °C (DIN 53213)
Flammability	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Upper and Lower Explosive Limits	0.8% - 7.7% (vol)
Vapour Pressure @20°C	61 hPa
Density@ 20°C	1.04 g/cm ³ (DIN 51757)
Specific Gravity	Not available
Water Solubility	Not miscible or difficult to mix.
Partition Coefficient:	Not available
Ignition Temperature	200 °C
Decomposition Temperature	Not available
Dynamic Viscosity @20°C	500 mPas
Particle Characteristics	Not available
Solvent content	Organic Solvents: 51.0%
Solids content	49.0 % (DIN 53216)
VOC(EU)	50.50%
VOCV	520.0g/L 50.50%

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to Avoid	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
Incompatible Materials	Oxidising agents, combustible materials, strong acids, bases.
Hazardous Decomposition Products	Carbon monoxide.

Section 11 Toxicological Information**Acute Effects:**

Swallowed	Not applicable.
Dermal	May be harmful in contact with skin.
Inhalation	May cause drowsiness or dizziness.
Eye	Causes serious eye irritation.
Skin	Causes skin irritation. May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
Germ Cell Mutagenicity	Not applicable.
Aspiration	May be fatal if swallowed and enters airways.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through prolonged or repeated exposure.

Acute Toxicity -

Chemical Name	LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
Product			
64742-49-0 Naphtha (petroleum), hydrotreated light	>5000mg/kg(Rat)	>2600mg/kg(Rabbit)	>193mg/l(Rat)
1330-20-7 Xylene, mixed isomers, pure	8700mg/kg(Rat)	2000mg/kg(Rabbit)	6350mg/l(Rat)
141-78-6 Ethyl acetate	4935mg/kg (Rabbit)	-	1600mg/l (Rat)
64742-48-9 Naphtha (petroleum), hydrotreated	>5000mg/kg(Rat)	>3000mg/kg(Rat)	
64742-95-6 Solvent naphtha (petroleum), light	>6800mg/kg(Rat)	>3400mg/kg(Rat)	>10.2mg/l(Rat)
64-17-5 Ethanol	7060mg/kg(Rat)	-	20000mg/l(Rat)
7779-90-0 Trizinc bis(orthophosphate)	>5000mg/kg (Rat)	-	0.09mg/l(Salmo Gairdneri / Oncorhynchus Mykiss)

Section 12. Ecotoxicological Information

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	Hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Aquatic toxicity:

64742-49-0 Naphtha (petroleum), hydrotreated light
EC50/48 h 10 mg/l (PHAEOPHYTA)

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, Ecotoxic" and that the label also has the Flammable, Ecotoxic Pictograms, waste type identifier, and the business name, address, and phone number.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Road and Rail Transport

UN No: 1139
Class-primary 3
Packing Group II
Subclass 9
Proper Shipping Name: COATING SOLUTION

Air Transport

UN No: 1139
Class-primary 3
Packing Group II
Subclass 9
Proper Shipping Name: COATING SOLUTION

Marine Transport

UN No: 1139
Class-primary 3
Packing Group II
Subclass 9
Proper Shipping Name: COATING SOLUTION

Limited Quantities Statement:

If the product's individual container is below 5L/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 2017

EPA Approval Code: Surface Coatings and Colourants (Flammable) – HSR002662

HSNO Classification: 3.1B, 6.1E(Dermal, Aspiration), 6.3A, 6.4A, 6.5B, 6.8B, 6.9B, 6.9N, 9.1B

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	100L(>5L);250L(<5L);50L open (3.1B)
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L (3.1B)
Emergency Response Plan	1000L (3.1B, 9.1B)

Secondary Containment	1000L (3.1B, 9.1B)
Fire Extinguishers	>250kg (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 Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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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.

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