



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Dinitrol 448 Black**
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: Surface Coatings and Colourants (subsidiary) – HSR002670

Signal Word: **Warning**

| GHS Classification and Category | Hazard Code | Hazard Statement |
|---|-------------|--|
| Hazardous to the aquatic environment chronic Cat. 3 | H412 | Harmful to aquatic life with long lasting effects. |

| Prevention Code | Prevention Statement |
|-----------------|---|
| P103 | Read carefully and follow all instructions. |
| P273 | Avoid release to the environment. |

| Response Code | Response Statement |
|----------------|--------------------|
| None allocated | |

| Storage Code | Storage Statement |
|----------------|-------------------|
| None allocated | |

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

Section 3. Composition / Information on Hazardous Ingredients

| Ingredients | Wt% | CAS NUMBER. |
|-----------------------------|----------|-------------|
| Ethanol | 1-5 | 64-17-5 |
| Trizinc bis(orthophosphate) | 12.5-<20 | 7779-90-0 |

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Tel: 64 9 475 5240 www.techcomp.co.nz

| | | |
|---|-------|------------|
| Zinc Oxide | 1-2.5 | 1314-13-2 |
| Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | <2.5 | 55965-84-9 |

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. Take off contaminated clothing and wash it before reuse. 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 immediately. 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: None known.

Section 5. Fire Fighting Measures

| | |
|---|---|
| Hazard Type | None Flammable. |
| Hazards from products | In case of fire may be liberated: Gases/vapours, toxic |
| 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. Special danger of slipping by leaking/spilling product. Ventilate affected area.

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

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Precautions for Handling:

- Read carefully and follow all instructions.
- Avoid release to the environment.
- 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.
- When using do not eat or drink.
- Wash hands before breaks and after work.
- Avoid contact with skin and eyes.
- Keep away from food, drink and animal feeding stuffs.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.

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 alcohol (Ethanol) [64-17-5] | 1000 | 1880 | - | - |
| 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/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|-----------|-----------------------------|----------------|----------|------------------------|
| 7727-43-7 | Barium sulfate | | | |
| | Worker DNEL, long-term | inhalation | systemic | 10 mg/m ³ |
| | Worker DNEL, long-term | inhalation | local | 10 mg/m ³ |
| | Consumer DNEL, long-term | inhalation | systemic | 10 mg/m ³ |
| | Consumer DNEL, long-term | oral | systemic | 13000 mg/kg bw/day |
| 64-17-5 | Ethanol | | | |
| | Consumer DNEL, long-term | dermal | systemic | 206 mg/kg bw/day |
| | Worker DNEL, long-term | dermal | systemic | 343 mg/kg bw/day |
| | Consumer DNEL, long-term | inhalation | systemic | 114 mg/m ³ |
| | Worker DNEL, long-term | inhalation | systemic | 950 mg/m ³ |
| | Worker DNEL, acute | inhalation | local | 1900 mg/m ³ |
| | Consumer DNEL, acute | inhalation | local | 950 mg/m ³ |
| 7779-90-0 | trizinc bis(orthophosphate) | | | |
| | Worker DNEL, long-term | inhalation | systemic | 5 mg/m ³ |
| | Worker DNEL, long-term | dermal | systemic | 83 mg/kg bw/day |
| | Consumer DNEL, long-term | inhalation | systemic | 2,5 mg/m ³ |
| | Consumer DNEL, long-term | dermal | systemic | 83 mg/kg bw/day |
| | Consumer DNEL, acute | oral | systemic | 0,83 mg/kg bw/day |
| 1314-13-2 | zinc oxide | | | |
| | Worker DNEL, long-term | inhalation | systemic | 5 mg/m ³ |
| | Worker DNEL, long-term | inhalation | local | 0,5 mg/m ³ |

| | | | |
|--------------------------|------------|----------|-----------------------|
| Worker DNEL, long-term | dermal | systemic | 83 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 2,5 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 83 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 0,83 mg/kg bw/day |

PNEC values

| CAS No | Substance | Environmental compartment | Value |
|-----------|-----------------------------|--|-------------|
| 7727-43-7 | Barium sulfate | Freshwater | 0,115 mg/l |
| | | Freshwater sediment | 600,4 mg/kg |
| | | Micro-organisms in sewage treatment plants (STP) | 62,2 mg/l |
| | | Soil | 207,7 mg/kg |
| 7779-90-0 | trizinc bis(orthophosphate) | 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 |
| 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



| | |
|--------------------|--|
| 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 | Not required. |

Section 9 Physical and Chemical Properties

| | |
|-------------|--------|
| Form | Liquid |
|-------------|--------|

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| | |
|---|-------------------------------|
| Colour | Black |
| Odour | Characteristic |
| Odour Threshold | Not available |
| pH | 8 |
| Boiling Point | Not available |
| Melting Point | Not available |
| Freezing Point | Not available |
| Flash Point | Not available |
| Flammability | Non Flammable |
| Upper and Lower Explosive Limits | Not available |
| Vapour Pressure @20°C | 23 hPa |
| Density@ 20°C | 1.44 – 1.48 g/cm ³ |
| Specific Gravity | Not available |
| Water Solubility | Completely miscible |
| Partition Coefficient: | Not available |
| Auto-Ignition Temperature | Not available |
| Decomposition Temperature | Not available |
| Viscosity /Dynamic | 4500-5200 mPas @ 20°C |
| Particle Characteristics | Not available |
| Solvent content | 2,5 %, water: 22,8 % |
| Solids content | 66-70% |

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 | None known. |
| 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 | Not applicable. |

Toxicity:

| CAS No | Chemical name | | | | |
|--------|----------------|------|---------|--------|--|
| | Exposure route | Dose | Species | Source | |

| | | | | | |
|------------|---|---------------|-----------|--------|--|
| 64-17-5 | Ethanol | | | | |
| | oral | LD50 mg/kg | 10470 | Rat | |
| | dermal | LD50 mg/kg | > 2000 | Rabbit | |
| | inhalation (4 h) vapour | LC50 | > 50 mg/l | Rat | |
| 7779-90-0 | trizinc bis(orthophosphate) | | | | |
| | oral | LD50 mg/kg | > 5000 | Rat | |
| | inhalation (4 h) dust/mist | LC50 mg/l | > 5,7 | Rat | |
| 1314-13-2 | zinc oxide | | | | |
| | oral | LD50 mg/kg | > 7950 | Rat | |
| | inhalation (4 h) dust/mist | LC50 mg/l | > 2500 | Rat | |
| 55965-84-9 | Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | | | | |
| | oral | ATE mg/kg | 100 | | |
| | dermal | ATE | 50 mg/kg | | |
| | inhalation vapour | ATE | 0,5 mg/l | | |
| | inhalation dust/mist | ATE | 0,05 mg/l | | |

Section 12. Ecotoxicological Information

Harmful to aquatic life with long lasting effects.

Toxicity:

| CAS No | Chemical name | | | [h] [d] | Species | Source | Method |
|------------|---|----------------|----------|-----------|--------------------------------|--------|--------|
| 64-17-5 | Ethanol | | | | | | |
| | Acute algae toxicity | ErC50 | 275 mg/l | 72 h | Chlorella vulgaris | | |
| | Acute crustacea toxicity | EC50 mg/l | > 10000 | 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 | |
| 55965-84-9 | Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | | | | | | |
| | Acute bacteria toxicity | (EC50 mg/l) | 0,97 | 3 h | Activated sludge | | |

Persistence and Degradability:

There are no data available on the mixture itself.

Bioaccumulative Potential:

There are no data available on the mixture itself.

Partition coefficient -octanol/water

| CAS No | Chemical name | Log Pow |
|------------|---|-------------|
| 55965-84-9 | Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 0.71 - 0.75 |

Mobility in Soil:

There are no data available on the mixture itself.

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Dispose as per Local Regulations. Completely emptied packages can be recycled.

Precautions or methods to avoid: Do not allow to enter waterways.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020 and SNZ HB 5433:2021

Section 15 Regulatory Information

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

EPA Approval Code: Surface Coatings and Colourants (subsidiary) – HSR002670

| HSW (HS) Regulations 2017 and EPA Notices | Trigger Quantity |
|---|------------------------------------|
| Certified Handler | Not required |
| Location Certificate | Not required |
| Tracking Trigger Quantities | Not required |
| Signage Trigger Quantities | 1000L |
| Emergency Response Plan | 1000L |
| Secondary Containment | 1000L |
| 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

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

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