



Safety Data Sheet

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BONDERITE O-PC AQUA NAIL GREEN PAINT COATING
known as Bonderite Aqua Nail Green 25kg

MSDS-No. : 473266
V001.4
Date of issue: 19.11.2015

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: BONDERITE O-PC AQUA NAIL GREEN PAINT COATING known as Bonderite Aqua Nail Green 25kg

Intended use: Paints and coatings

Supplier:
Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture
Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>
Serious eye irritation	Category 2A
Skin irritation	Category 2
Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

Hazard pictogram:



Signal word:

Warning

Hazard statement(s): H412 Harmful to aquatic life with long lasting effects.
H319 Causes serious eye irritation.

Precautionary Statement(s):

Prevention: P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection.

Response: P302+P352 IF ON SKIN: Wash with plenty of water.
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 attention.
P337+P313 If eye irritation persists: Get medical attention.
P362 Take off contaminated clothing.
P391 Collect spillage.

Disposal: P501 Dispose of contents/container in accordance with national regulation.

Classification of material Xi - Irritant

Risk phrases:
R36/38 Irritating to eyes and skin.

Safety phrases:
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water and soap.
S37/39 Wear suitable gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.

Dangerous Goods information:
Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Signal word:
HAZARDOUS

Section 3. Composition / information on ingredients

General chemical description: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Aluminum triphosphate	13939-25-8	< 3 %
zinc oxide	1314-13-2	< 3 %
2-Butoxyethanol	111-76-2	< 3 %
Remainder not hazardous including water~		60- 100 %

Section 4. First aid measures

Ingestion:	Rinse mouth, do not induce vomiting, consult a doctor.
Skin:	After contact with skin, wash immediately with plenty of water. Seek medical advice.
Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.
Inhalation:	Move to fresh air. In case of adverse health effects seek medical advice.
First Aid facilities:	Eye wash Normal washroom facilities
Medical attention and special treatment:	Treat symptomatically.

Section 5. Fire fighting measures

Suitable extinguishing media:	All common extinguishing agents are suitable.
Decomposition products in case of fire:	Thermal decomposition can lead to release of irritating gases and vapors. Oxides of carbon. Hydrogen chloride. oxides of zinc
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus. Wear protective equipment.
Additional fire fighting advice:	In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.

Section 6. Accidental release measures

Personal precautions:	Ensure adequate ventilation. Avoid contact with skin and eyes. Use personal protective equipment as described in Section 8.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Remove with liquid-absorbing material (sand, peat, sawdust). Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Precautions for safe handling:	Refer to Section 8. Ensure that workrooms are adequately ventilated. Avoid skin and eye contact. Gloves and safety glasses should be worn
Conditions for safe storage:	Store in a cool, dry, well-ventilated area. Keep away from heat and direct sunlight.

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
ALUMINIUM, SOLUBLE SALTS (AS AL) 13939-25-8			2	-	-	-	-
ZINC OXIDE (FUME) 1314-13-2	Fume.		5	-	-	-	-
ZINC OXIDE (FUME) 1314-13-2	Fume.	-		-	-		10
ZINC OXIDE (INSPIRABLE DUST) 1314-13-2	Inspirable dust.		10	-	-	-	-
2-BUTOXYETHANOL 111-76-2		20	96.9	-	-	-	-
2-BUTOXYETHANOL 111-76-2		-	-	-	-	50	242

Engineering controls:

Ventilation should effectively remove and prevent buildup of any vapor/mist/fume/dust generated from the handling of this product.

Eye protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Use impermeable gloves and protective clothing as necessary to prevent skin contact. Protective gloves made of rubber.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Respiratory protection:

If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

General protection measures:

Good industrial hygiene practices should be observed.

Section 9. Physical and chemical properties

Appearance:

light green
Liquid

Density:

1.26 - 1.30 g/cm³

Solubility in water:

fully miscible

Section 10. Stability and reactivity

Stability:

Stable under normal conditions of temperature and pressure.

Conditions to avoid:

Avoid heating.
Protect from direct sunlight.

Incompatible materials:	None if used for intended purpose.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. Oxides of carbon. Hydrogen chloride. Oxides of zinc.

Section 11. Toxicological information

Health Effects:	
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin:	Irritating to skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Eyes:	Causes serious eye irritation. Symptoms may include severe irritation, pain, tearing, blurred vision.
Inhalation:	Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Aggravated med. condition:	Pre-existing skin disorders.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Aluminum triphosphate 13939-25-8	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
zinc oxide 1314-13-2	LD50 LC50	> 5,000 mg/kg > 5.7 mg/l	oral inhalation	4 h	rat rat	
2-Butoxyethanol 111-76-2	LD50	1,746 mg/kg	oral		rat	
	LD50	2,000 mg/kg	dermal		rabbit	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
zinc oxide 1314-13-2	not irritating		rabbit	
2-Butoxyethanol 111-76-2	irritating	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
zinc oxide 1314-13-2	slightly irritating		rabbit	
2-Butoxyethanol 111-76-2	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
zinc oxide 1314-13-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
2-Butoxyethanol 111-76-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
zinc oxide 1314-13-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		
2-Butoxyethanol 111-76-2	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
2-Butoxyethanol 111-76-2	NOAEL=0.121 mg/l	inhalation	42 or 90 days 6 hours/day, 5 days/week	rat	
2-Butoxyethanol 111-76-2	NOAEL=<< 69 mg/kg	oral: drinking water	91 d continuous	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.**Ecotoxicity:** Harmful to aquatic life with long lasting effects.**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Aluminum triphosphate 13939-25-8	LC50	> 1,600 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
Aluminum triphosphate 13939-25-8	EC50	1,089 mg/l	Daphnia	50 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Aluminum triphosphate 13939-25-8	EC50	> 100 mg/l	Algae		Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Aluminum triphosphate 13939-25-8	EC10	500 mg/l	Bacteria	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
zinc oxide 1314-13-2	LC50	> 1,000 mg/l	Fish		Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
zinc oxide 1314-13-2	NOEC	0.017 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
zinc oxide 1314-13-2	EC50	0.17 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
zinc oxide 1314-13-2	NOEC	500 mg/l	Bacteria			
2-Butoxyethanol 111-76-2	LC50	1,474 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Butoxyethanol 111-76-2	NOEC	> 100 mg/l	Fish	21 d	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
2-Butoxyethanol 111-76-2	EC50	1,550 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Butoxyethanol 111-76-2	EC50	1,840 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Butoxyethanol 111-76-2	NOEC	286 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Butoxyethanol 111-76-2	EC0	1,000 mg/l	Bacteria	30 min		

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
2-Butoxyethanol 111-76-2	readily biodegradable	aerobic	73 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
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2-Butoxyethanol 111-76-2	0.81			25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
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Section 13. Disposal considerations

- Waste disposal of product:** Collection and delivery to recycling enterprise or other registered elimination institution. Dispose of in accordance with local and national regulations.
- Recommended cleanser:** Clean the packaging with water.
- Disposal for uncleaned package:** Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

General information:

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

Section 15. Regulatory information

SUSMP Poisons Schedule None

Section 16. Other information

Abbreviations/acronyms: ADGC - Australian Dangerous Goods Code
ASCC - Australian Safety and Compensation Council
SUSDP - Standard for the Uniform Medicines of Drugs and Poisons
STEL - Short term exposure limit
TWA - Time weighted average

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Disclaimer:

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