

MSDS ATTACHMENT

PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR :

PRODUCT :

BONDERITE S-WT 2431

DATE :

(MSDS date)

12.05.2022

1. Manufacturer/Supplier :

PPS Industries Limited
86 Hugo Johnston Drive, Auckland
New Zealand
P.O.Box 12823, Penrose, Auckland 1642
Phone : 64 9 579-1001
Facsimile : 64 9 579-9497
Emergency Phone : 0800 657-894
Website: www.ppsindustries.co.nz

Emergency Information :

National Poison Centre 0800 764-766
Chemcall 24/7 Emergency Response Service : 0800 243-622

13. Disposal Considerations :

Product

Recommendation - Consult local or national regulations to ensure proper disposal.

Packaging

Disposal must be made according to official regulations.

16. Other Information :

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.



Safety Data Sheet

Page 1 of 10

BONDERITE S-WT 2431 WATER TREATMENT known as Parco
Spray Booth Co.2431 35Kg

SDS No. : 429705

V001.3

Revision: 12.05.2022

printing date: 13.09.2023

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:	BONDERITE S-WT 2431 WATER TREATMENT known as Parco Spray Booth Co.2431 35Kg
Intended use:	Paint Coagulation Agents
Supplier:	Henkel New Zealand Ltd 2 Allens Rd Auckland, 2013 New Zealand Phone: +64 (9) 272-6710
Emergency information:	24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

Classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>
Corrosive to metals	Category 1	
Acute toxicity	Category 4	Oral
Skin corrosion	Sub-category 1A	
Serious eye damage	Category 1	
Acute hazards to the aquatic environment	Category 3	

Hazard pictogram:



Signal word:

Danger

Hazard statement(s):	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H402 Harmful to aquatic life.
Precautionary Statement(s):	
Prevention:	P234 Keep only in original packaging. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response:	P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Get immediate medical advice/attention. P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage.
Storage:	P405 Store locked up. P406 Store in corrosive resistant container with a resistant inner liner.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Potassium hydroxide	1310-58-3	30- < 50 %
Propane-1,2-diol	57-55-6	1- < 10 %
2,2',2"-Nitrilotriethanol	102-71-6	1- < 10 %
Poly(oxy-1,2-ethanediyl), a-phenyl-w-hydroxy-, phosphate	39464-70-5	1- < 3 %
non hazardous ingredients~		30- <= 60 %

SECTION 4 FIRST AID MEASURES

Ingestion:	Do not induce vomiting. Have victim rinse mouth thoroughly with water. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Seek medical advice.
Skin:	In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Seek medical attention from a specialist.
Eyes:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention immediately.

Inhalation: Move to fresh air.
Keep warm and in a quiet place.
Seek medical attention from a specialist.
Delayed effects possible after inhalation.

First Aid facilities: Eye wash and safety shower
Normal washroom facilities

Medical attention and special treatment: Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Improper extinguishing media: Water spray jet

Decomposition products in case of fire: Thermal decomposition can lead to release of irritating gases and vapors.
carbon monoxide
Carbon dioxide.
Oxides of nitrogen.

Particular danger in case of fire: May react with metals to form flammable hydrogen gas.

Special protective equipment for fire-fighters: Wear full protective clothing.
Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

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.

Hazchem code: 2R

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation.
Keep unprotected persons away.
Avoid skin and eye contact.
Adequate personal protective equipment should be worn by all personnel involved in the clean-up work.

Environmental precautions: Do not discharge into surface water/ground water.

Clean-up methods: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Sweep up or gather material and place in appropriate container for disposal.

SECTION 7. HANDLING AND STORAGE

- Precautions for safe handling:** Ensure that workrooms are adequately ventilated.
Keep container tightly sealed.
Avoid skin and eye contact.
Wear suitable protective clothing, gloves and eye/face protection.
Use good hygiene practices when handling this material, including changing and laundering work clothes after use. Discard contaminated shoes and leather goods.
- Conditions for safe storage:** Store only in the original container.
Keep container tightly sealed.
Store in a cool, well-ventilated place.
Isolate from incompatible substances.
Keep away from heat and direct sunlight.
Must be stored in the facility for the dangerous goods
Keep away from highly acidic substances.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Celling	STEL (ppm)	STEL (mg/m3)
POTASSIUM HYDROXIDE 1310-58-3		-	-	2 mg/m3	-	-
PROPANE-1,2-DIOL, PARTICULATES ONLY 57-55-6	Particulate.		10	-	-	-
PROPANE-1,2-DIOL, VAPOUR & PARTICULATES	Vapor and particulates.	150	474	-	-	-
TRIETHANOLAMINE 102-71-6			5	-	-	-

Biological Exposure Indices:

None

Engineering controls: Ensure good ventilation/suction at the workplace.

Eye protection: For eye protection, use tightly fitted safety goggles and a face-shield

Skin protection: Use of an impervious apron is recommended.
Impervious gloves should be used at all times when handling this product.
Protective clothing that covers arms and legs.
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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Pale yellow
clear
- Odor:** mild
- Specific gravity:** 1.41 - 1.43

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Extremes of temperature.
Excessive heat.

Incompatible materials: Incompatible with oxidising agents.
Reacts with metals: Heat generated and hydrogen released.
Acids.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors.
Carbon dioxide.
Carbon monoxide.
Oxides of nitrogen.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:

Ingestion: Harmful if swallowed.
May cause burns to the mouth, throat, and stomach.
This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Skin: Corrosive to skin.
Symptoms may include redness, burning, drying, cracking and skin burns.

Eyes: Causes serious eye damage.
Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Inhalation: Mists or vapors may be irritating to the respiratory tract.
Can cause severe irritation and burns to the respiratory tract.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Potassium hydroxide 1310-58-3	LD50	388 mg/kg	oral		rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
Propane-1,2-diol 57-55-6	LD50 LC50 LD50	22,000 mg/kg > 317.042 mg/l > 2,000 mg/kg	oral inhalation dermal	2 h	rat rabbit rabbit	not specified not specified not specified
2,2',2''-Nitrilotriethanol 102-71-6	LD50 LD50	6,400 mg/kg > 2,000 mg/kg	oral dermal		rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Potassium hydroxide 1310-58-3	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Propane-1,2-diol 57-55-6	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2,2',2''-Nitrilotriethanol 102-71-6	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Potassium hydroxide 1310-58-3	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Propane-1,2-diol 57-55-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2,2',2''-Nitrilotriethanol 102-71-6	not irritating		rabbit	Draize Test
Poly(oxy-1,2-ethanediyl), a-phenyl-w-hydroxy-, phosphate 39464-70-5	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Potassium hydroxide 1310-58-3	not sensitising	Intracutan eus test	guinea pig	Landsteiner & Jacobs Method
Propane-1,2-diol 57-55-6	not sensitising	Guinea pig maximisat ion test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
2,2',2''-Nitrilotriethanol 102-71-6	not sensitising	Guinea pig maximisat ion 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
Potassium hydroxide 1310-58-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Propane-1,2-diol 57-55-6	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	without with and without		Ames Test OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Propane-1,2-diol 57-55-6	negative negative negative	oral: gavage intraperitoneal oral: gavage		rat mouse rat	not specified not specified not specified
2,2',2''-Nitrilotriethanol 102-71-6	negative negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay sister chromatid exchange assay in mammalian cells	with and without with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) not specified
2,2',2''-Nitrilotriethanol 102-71-6	negative	dermal		mouse	Micronucleus assay

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Propane-1,2-diol 57-55-6	NOAEL=1,700 mg/kg	oral: feed	2 yearsdaily	rat	not specified
Propane-1,2-diol 57-55-6	NOAEL=1000 mg/m3	inhalation	90 d6 h/d, 5 d/w	rat	not specified
2,2',2"-Nitrilotriethanol 102-71-6	NOAEL=1,000 mg/kg	oral: feed	91 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
2,2',2"-Nitrilotriethanol 102-71-6	NOAEL=125 mg/kg	dermal	90 d5 d/w	rat	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
2,2',2"-Nitrilotriethanol 102-71-6		inhalation	28 d6 h/d, 5 d/w	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)

SECTION 12. ECOLOGICAL INFORMATION

General ecological information: Do not empty into drains / surface water / ground water., Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Ecotoxicity: Harmful to aquatic life.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Potassium hydroxide 1310-58-3	LC50	80 mg/l	Fish	96 h	Western mosquitofish (Gambusia affinis) Daphnia sp.	not specified
Potassium hydroxide 1310-58-3	EC50	> 100 mg/l	Daphnia			OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) not specified
Potassium hydroxide 1310-58-3	EC0	> 100 mg/l	Bacteria	30 min	Oncorhynchus mykiss Ceriodaphnia dubia Pseudokirchneriella subcapitata Pseudokirchneriella subcapitata activated sludge Pimephales promelas Ceriodaphnia dubia Desmodesmus subspicatus (reported as Scenedesmus subspicatus) Desmodesmus subspicatus (reported as Scenedesmus subspicatus) not specified Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test) other guideline:
Propane-1,2-diol 57-55-6	LC50	51,600 mg/l	Fish	96 h		OECD Guideline 201 (Alga, Growth Inhibition Test)
Propane-1,2-diol 57-55-6	EC50	18,340 mg/l	Daphnia	48 h		OECD Guideline 201 (Alga, Growth Inhibition Test)
Propane-1,2-diol 57-55-6	EC50	24,200 mg/l	Algae	72 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Propane-1,2-diol 57-55-6	NOEC	15,000 mg/l	Algae	14 d		OECD Guideline 203 (Fish, Acute Toxicity Test) other guideline:
Propane-1,2-diol 57-55-6	EC50	> 1,000 mg/l	Bacteria	3 h		DIN 38412-09
2,2',2''-Nitrilotriethanol 102-71-6	LC50	11,800 mg/l	Fish	96 h		DIN 38412-09
2,2',2''-Nitrilotriethanol 102-71-6	EC50	609.88 mg/l	Daphnia	48 h		not specified
2,2',2''-Nitrilotriethanol 102-71-6	EC50	512 mg/l	Algae	72 h		not specified
2,2',2''-Nitrilotriethanol 102-71-6	EC10	26 mg/l	Algae	72 h		not specified
2,2',2''-Nitrilotriethanol 102-71-6	EC0	1,000 mg/l	Bacteria	30 min		not specified
Poly(oxy-1,2-ethanediy), a-phenyl-w-hydroxy-, phosphate 39464-70-5	LC50	> 100 mg/l	Fish	96 h		not specified

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Propane-1,2-diol 57-55-6	readily biodegradable	aerobic	> 81.7 - 100 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
2,2',2''-Nitrilotriethanol 102-71-6	readily biodegradable	aerobic	97 - 100 %	EU Method C.4-B (Determination of the "Ready" Biodegradability Modified OECD Screening Test)
2,2',2''-Nitrilotriethanol 102-71-6	inherently biodegradable	aerobic	99 %	EU Method C.9 (Biodegradation: Zahn-Wellens Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
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Propane-1,2-diol 57-55-6	-1.07			20.5 °C	EU Method A.8 (Partition Coefficient)
2,2',2''-Nitritotriethanol 102-71-6	-1.9			25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

SECTION 13. DISPOSAL CONSIDERATIONS

- Waste disposal of product:** In consultation with the responsible local authority, must be subjected to special treatment: Neutralisation
- Disposal for uncleaned package:** Use packages for recycling only when totally empty.
Dispose of in accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

Dangerous Goods information:

Land Transport:

Classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

Land Transport:

UN no.: 1814
Proper shipping name: POTASSIUM HYDROXIDE SOLUTION
Class or division: 8
Packing group: II
Hazchem code: 2R

Marine transport IMDG:

UN no.: 1814
Proper shipping name: POTASSIUM HYDROXIDE SOLUTION
Class or division: 8
Packing group: II
EmS: F-A ,S-B
Seawater pollutant: -

Air transport IATA:

UN no.: 1814
Proper shipping name: Potassium hydroxide solution
Class or division: 8
Packing group: II
Packing instructions (passenger) 851
Packing instructions (cargo) 855

SECTION 15. REGULATORY INFORMATION

New Zealand regulatory information:

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

HSNO Approval Number: HSR002609

Site and Storage:

Refer to the site and storage requirements for this Group Standard.
Refer to the HSNO controls for approved hazardous substances.

NZIOc: Compliant for NZIOc

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: STEL - Short term exposure limit
TWA - Time weighted average
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
HSNO - Hazardous Substances and New Organisms
GHS: Globally Harmonized System
CAS: Chemical Abstracts Service
LD 50: Lethal Dose 50%
LC 50: Lethal Concentration 50%

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1 - 16

Date of previous issue: 30.05.2017

Disclaimer:

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