

MSDS ATTACHMENT

PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR :

PRODUCT :

BONDERITE S-AD 201

DATE :

(MSDS date)

19/12/2023

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 9

BONDERITE S-AD 201

SDS No. : 700808

V001.1

Revision: 19.12.2023

printing date: 20.12.2023

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:	BONDERITE S-AD 201
Intended use:	Paint stripping agents
Supplier:	Henkel New Zealand Ltd 2 Allens Rd Auckland, 2013 New Zealand Phone: +64 (9) 272-6710
Emergency Telephone for Chemical Accidents:	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	
Skin corrosion	Category 1B	
Serious eye damage/eye irritation	Category 1	
Target Organ Systemic Toxicant - Repeated exposure	Category 2	

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. H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary Statement(s):	
Prevention:	P234 Keep only in original packaging. P260 Do not breathe mist/vapours. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. 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. P314 Get medical advice/attention if you feel unwell. 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
Ethane-1,2-diol	107-21-1	50- < 70 %
benzyl alcohol	100-51-6	10- < 20 %
Potassium hydroxide	1310-58-3	10- < 20 %

SECTION 4 FIRST AID MEASURES

Ingestion:	Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting. Immediate medical treatment necessary.
Skin:	Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. Seek medical attention from a specialist.
Eyes:	Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.
Inhalation:	Fresh air, oxygen supply, warmth; seek specialist medical attention.
First Aid facilities:	Eye wash and safety shower
Medical attention and special treatment:	Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

- Suitable extinguishing media:** Carbon dioxide, foam, powder
Fine water spray
- Improper extinguishing media:** Water jet (solvent-containing product).
- Particular danger in case of fire:** Formation of toxic gases is possible during heating or in fires.
- Special protective equipment for fire-fighters:** Wear self contained breathing apparatus.
- Additional fire fighting advice:** In case of fire, keep containers cool with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Avoid contact with skin and eyes.
Danger of slipping on spilled product.
- 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:** Avoid skin and eye contact.
When diluting/dissolving always slowly stir the product into water. Do not add product to hot water or hot solutions. Heating with vigorous, sudden delayed boiling is possible!
Scalding hazard!
Ensure that workrooms are adequately ventilated.
Take measures to prevent the build-up of electrostatic charges.
See advice in section 8
- Conditions for safe storage:** Store only in the original container.
Must be stored in a room with spill collection facilities.
Keep container tightly sealed.
Keep container in a well ventilated place.
Do not use packing made of metal.
Do not store together with oxidants.
Do not store together with strong acids.
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
ETHYLENE GLYCOL (VAPOUR AND MIST) 107-21-1	Vapor and mist.	-	-	50 ppm	-	-
POTASSIUM HYDROXIDE 1310-58-3		-	-	2 mg/m3	-	-

Biological Exposure Indices:
None

Engineering controls:	Ensure good ventilation/suction at the workplace.
Eye protection:	Goggles which can be tightly sealed.
Skin protection:	Protective clothing that covers arms and legs. Recommended gloves include butyl rubber and neoprene.
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:	Light tan, Clear Liquid
Odor:	characteristic
pH:	Not available.
Specific gravity:	1.22 - 1.26
Flash point:	Not applicable
Density:	1.24 g/ml

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	No decomposition if used according to specifications.
Incompatible materials:	Reacts with acids: Heat released. Reaction with strong oxidants.
Hazardous decomposition products:	None if used for intended purpose. In case of fire toxic gases can be released.

SECTION 11. TOXICOLOGICAL INFORMATION

Health Effects:**Ingestion:**

Harmful if swallowed.

May cause burns of the mouth, throat and stomach. May also cause gastrointestinal disturbances such as nausea, vomiting, abdominal pain, and diarrhea.

Skin:

Corrosive to the skin. Contact with the skin or mucous membranes may cause severe irritation and burns.

Eyes:

Causes serious eye damage.

Inhalation:

May cause respiratory tract irritation.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethane-1,2-diol 107-21-1	Acute toxicity estimate (ATE) LD50	500 mg/kg 10,600 mg/kg	oral dermal		rabbit	Expert judgement not specified
benzyl alcohol 100-51-6	LD50 Acute toxicity estimate (ATE) LC50 Acute toxicity estimate (ATE)	1,620 mg/kg 4.17 mg/l > 4.178 mg/l 2,500 mg/kg	oral inhalation inhalation dermal	4 h	rat rat	not specified Expert judgement OECD Guideline 403 (Acute Inhalation Toxicity) Expert judgement
Potassium hydroxide 1310-58-3	LD50	333 mg/kg	oral		rat	equivalent or similar to OECD Guideline 425 (Acute Oral toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethane-1,2-diol 107-21-1	not irritating	20 h	rabbit	BASF Test
benzyl alcohol 100-51-6	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Potassium hydroxide 1310-58-3	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethane-1,2-diol 107-21-1	not irritating		rabbit	BASF Test
benzyl alcohol 100-51-6	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Potassium hydroxide 1310-58-3	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Ethane-1,2-diol 107-21-1	not sensitising	Guinea pig maximisa- tion test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Potassium hydroxide 1310-58-3	not sensitising	Intracutan- eous test	guinea pig	Landsteiner & Jacobs Method

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Ethane-1,2-diol 107-21-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Ethane-1,2-diol 107-21-1	negative	oral: feed		rat	Chromosome Aberration Test
benzyl alcohol 100-51-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
benzyl alcohol 100-51-6	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Potassium hydroxide 1310-58-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Ethane-1,2-diol 107-21-1	NOAEL=150 mg/kg	oral: feed	16 wdaily	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
benzyl alcohol 100-51-6	NOAEL=400 mg/kg	oral: gavage	13 weeks once daily, 5 days/week	rat	equivalent or similar to 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:**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Ethane-1,2-diol 107-21-1	LC50	72,860 mg/l	Fish	96 h	Pimephales promelas	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians) other guideline:
Ethane-1,2-diol 107-21-1	NOEC	15,380 mg/l	Fish	7 d	Pimephales promelas	
Ethane-1,2-diol 107-21-1	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Ethane-1,2-diol 107-21-1	EC50	> 6,500 - 13,000 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethane-1,2-diol 107-21-1	NOEC	> 100 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethane-1,2-diol 107-21-1	EC20	> 1,995 mg/l	Bacteria	30 min	activated sludge, domestic	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
benzyl alcohol 100-51-6	LC50	460 mg/l	Fish	96 h	Pimephales promelas	EPA OPP 72-1 (Fish Acute Toxicity Test)
benzyl alcohol 100-51-6	EC50	230 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
benzyl alcohol 100-51-6	EC50	770 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
benzyl alcohol 100-51-6	NOEC	310 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
benzyl alcohol 100-51-6	EC10	658 mg/l	Bacteria	17 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Ethane-1,2-diol 107-21-1	readily biodegradable	aerobic	> 90 - 100 %	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)
benzyl alcohol 100-51-6	readily biodegradable	aerobic	92 - 96 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Ethane-1,2-diol 107-21-1	-1.36					QSAR (Quantitative Structure Activity Relationship)
benzyl alcohol 100-51-6	1.05				20 °C	EU Method A.8 (Partition Coefficient)

SECTION 13. DISPOSAL CONSIDERATIONS

- Waste disposal of product:** Dispose of in accordance with local and national regulations.
In consultation with the responsible local authority, must be subjected to special treatment.
- Recommended cleanser:** Clean the packaging with water.
- Disposal for uncleaned package:** Collection and delivery to recycling enterprise or other registered elimination institution.
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

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: Group standard HSR002609

NZIoC:

Compliant for NZIOC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms:

STEL - Short term exposure limit
TWA - Time weighted average
HSNO - Hazardous Substances and New Organisms
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

Reason for issue:

Reviewed SDS. Reissued with new date, involved chapters: 1-16

Date of previous issue:

10.02.2021

Disclaimer:

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel New Zealand Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel New Zealand Limited concerning the properties of the material.

The information contained in this Safety Data Sheet is offered in good faith and has been developed from what is believed to be accurate and reliable sources. The information is offered without warranty, representation, inducement or licence and Henkel New Zealand Limited assumes no legal responsibility for reliance upon same. Henkel New Zealand Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated Safety Data Sheet.

This information is not to be construed as a representation that the material is suitable for any particular purpose or use except those conditions and warranties implied by Government statutes. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use.

No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.