

MSDS ATTACHMENT

PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR :

PRODUCT :

BONDERITE C-AK Maxie

DATE :

(MSDS date)

01.03.2022

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

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BONDERITE C-AK MAXIE

SDS No. : 429708

V001.3

Revision: 01.03.2022

printing date: 14.09.2023

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: BONDERITE C-AK MAXIE

Intended use: Cleaner

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.

HSNO Classification:

8.1A Class 8 - Corrosiveness, Subclass 8.1 - Metallic corrosive, Hazard Classification A
Class 8 - Corrosiveness, Subclass 8.2 - Skin corrosive, Hazard Classification B
Class 8 - Corrosiveness, Subclass 8.3 - Eye corrosive, Hazard Classification A
Class 9 - Ecotoxicity, Subclass 9.1 - Aquatic, Hazard Classification D

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Target organ</u>
Corrosive to metals	Category 1	
Skin corrosion	Sub-category 1A	
Serious eye damage/eye irritation	Category 1	
Target Organ Systemic Toxicant - Single exposure	Category 3	respiratory tract irritation

Hazard pictogram:



Signal word:

Danger

Hazard statement(s): H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary Statement(s):

Prevention: P234 Keep only in original packaging.
P260 Do not breathe dust or fumes.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: 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: P403+P233 Store in a well-ventilated place. Keep container tightly closed.
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
Sodium hydroxide	1310-73-2	20- < 30 %
sodium carbonate	497-19-8	20- < 30 %
disodium metasilicate	6834-92-0	10- < 20 %
Trisodium orthophosphate	7601-54-9	1- < 10 %
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	1- < 3 %
Nonylphenol, I2EO	9016-45-9	1- < 3 %
Poly(oxy-1,2-ethanediyl), a-phenyl-w-hydroxy-, phosphate	39464-70-5	1- < 3 %

SECTION 4 FIRST AID MEASURES

Ingestion: Do not induce vomiting.
Have victim rinse mouth thoroughly with water.
Get immediate medical attention.

Skin: In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water.
Get immediate medical attention.

Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get immediate medical attention.

Inhalation:	Immediately remove victim to fresh air. Keep warm and in a quiet place. Get immediate medical attention.
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:	High pressure waterjet
Combustion behaviour:	Non-combustible.
Decomposition products in case of fire:	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Decomposition products include oxides of sodium.
Particular danger in case of fire:	May react with metals to form flammable hydrogen gas.
Special protective equipment for fire-fighters:	Wear protective equipment. 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:	2X

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid dust formation. Avoid skin and eye contact. Wear appropriate personal protective equipment. Keep unprotected persons away. Avoid contact with incompatible materials.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Sweep up spilled material and place in a closed container for disposal. Avoid creating dust. Dispose of according to Federal, State and local governmental regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:	Use only in well-ventilated areas. Do not breathe dust. Avoid skin and eye contact. Wear suitable protective clothing, safety glasses and gloves.
Conditions for safe storage:	Ensure adequate ventilation. Store in sealed original container. Store in a cool, well-ventilated place. Avoid moisture Store away from acids

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)
SODIUM HYDROXIDE 1310-73-2				2 mg/m3		

Biological Exposure Indices:

None

Engineering controls: Use local exhaust ventilation if the potential for airborne exposure exists.

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

Skin protection: Protective clothing that covers arms and legs.
Impervious gloves should be used at all times when handling this product. 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: light brown
fine

Odor: mild

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Avoid moisture.
Extremes of temperature.

Incompatible materials: Acids.
Ammonium salts.
Organic materials.
Strong oxidizing agents.
Reaction with metals: production of hydrogen.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors.
Carbon monoxide.
Carbon dioxide.
Decomposition products include oxides of sodium.

SECTION 11. TOXICOLOGICAL INFORMATION

Health Effects:

Ingestion:

Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if swallowed.

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin:

Corrosive to skin.

This product is severely irritating to the skin and may cause burns.

Contact can cause severe, slow-healing burns and redness itching, pain, swelling and rash.

Eyes:

Causes serious eye damage.

Corrosive to the eyes and may cause severe damage including blindness.

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:

May cause severe irritation.

Inhalation of dusts of this product may 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
Sodium hydroxide 1310-73-2	LD50	> 2,000 mg/kg	oral		rat	not specified
sodium carbonate 497-19-8	LD50 LD50	2,800 mg/kg > 2,000 mg/kg	oral dermal		rat rabbit	not specified EPA 16 CFR 1500.40 (Method of testing toxic substances)
disodium metasilicate 6834-92-0	LD50	> 5,000 mg/kg	dermal		rat	EPA OPPTS 870.1200 (Acute Dermal Toxicity)
Trisodium orthophosphate 7601-54-9	LD50 LD50	> 2,000 mg/kg > 2,000 mg/kg	oral dermal		rat rat	OECD Guideline 420 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LD50 LD50	1,080 mg/kg > 2,000 mg/kg	oral dermal		rat rat	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Sodium hydroxide 1310-73-2	corrosive		In vitro International Corrositex assay kit	OECD Guideline 435 (In Vitro Membrane Barrier Test Method for Skin Corrosion)
sodium carbonate 497-19-8	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
disodium metasilicate 6834-92-0	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	Category 2 (irritant)	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Sodium hydroxide 1310-73-2	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
sodium carbonate 497-19-8	irritating		rabbit	not specified
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	Category 1 (irreversible effects on the eye)	30 s	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
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
Sodium hydroxide 1310-73-2	not sensitising	Patch-Test	human	not specified
disodium metasilicate 6834-92-0	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	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
sodium carbonate 497-19-8	negative	bacterial reverse mutation assay (e.g Ames test)	with		Ames Test
disodium metasilicate 6834-92-0	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	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)
disodium metasilicate 6834-92-0	negative	oral: feed		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without without with and without		EU Method B.13/14 (Mutagenicity) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
disodium metasilicate 6834-92-0	NOAEL=227 - 237 mg/kg	oral: drinking water	3 mdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOAEL=125 mg/kg	oral: gavage	28 ddaily	rat	not specified

SECTION 12. ECOLOGICAL INFORMATION

General ecological information:

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

Ecotoxicity:

Harmful to aquatic life.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Sodium hydroxide 1310-73-2	LC50	45.4 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sodium hydroxide 1310-73-2	EC50	40.4 mg/l	Daphnia	48 h	Ceriodaphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sodium hydroxide 1310-73-2	EC0	> 100 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
sodium carbonate 497-19-8	LC50	300 mg/l	Fish	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
sodium carbonate 497-19-8	EC50	200 - 227 mg/l	Daphnia	48 h	Ceriodaphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
sodium carbonate 497-19-8	EC50	137 mg/l	Algae	5 d	Nitzschia sp.	OECD Guideline 201 (Alga, Growth Inhibition Test) not specified
sodium carbonate 497-19-8	EC 50	300 mg/l	Bacteria	30 min		
disodium metasilicate 6834-92-0	LC50	210 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	not specified
disodium metasilicate 6834-92-0	EC50	1,700 mg/l	Daphnia	48 h	Daphnia magna	not specified
disodium metasilicate 6834-92-0	EC0	36 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
disodium metasilicate 6834-92-0	EC50	213 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
disodium metasilicate 6834-92-0	EC0	1,000 mg/l	Bacteria	30 min		not specified
Trisodium orthophosphate 7601-54-9	LC50	1,650 mg/l	Fish		Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Trisodium orthophosphate 7601-54-9	EC50	190 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) not specified
Trisodium orthophosphate 7601-54-9	EC0	1,650 mg/l	Bacteria	30 min		not specified
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOEC	> 0.43 - 0.89 mg/l	Fish	28 d	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 210 (fish early lite stage toxicity test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LC50	1.67 mg/l	Fish	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	EC50	2.9 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	EC50	127.9 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOEC	2.4 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	EC0	26 mg/l	Bacteria	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)
Nonylphenol, 12EO 9016-45-9	LC50	16 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	not specified
Nonylphenol, 12EO 9016-45-9	EC0	1,000 mg/l	Bacteria	30 min		not specified
Poly(oxy-1,2-ethanediyl), a-phenyl-w-hydroxy-, phosphate 39464-70-5	LC50	> 100 mg/l	Fish	96 h	Oncorhynchus mykiss	not specified

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	readily biodegradable	aerobic	85 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Nonylphenol, 12EO 9016-45-9	not readily biodegradable.	aerobic	0 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	3.32					not specified

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal of product: Dispose of according to Federal, State and local governmental regulations.

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

Dangerous Goods information:

Land Transport:

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

Land Transport:

UN no.: 3262
 Proper shipping name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide,Sodium metasilicate)
 Class or division: 8
 Packing group: II
 Hazchem code: 2X

Marine transport IMDG:

UN no.: 3262
 Proper shipping name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide,Sodium metasilicate)
 Class or division: 8
 Packing group: II
 EmS: F-A ,S-B
 Seawater pollutant: -

Air transport IATA:

UN no.:	3262
Proper shipping name:	Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide,Sodium metasilicate)
Class or division:	8
Packing group:	II
Packing instructions (passenger)	859
Packing instructions (cargo)	863

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