MSDS ATTACHMENT

PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR :

PRODUCT : BONDERITE C-IC 624 ACID CLEANER

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

BONDERITE C-IC 624 ACID CLEANER known as Deoxidine 624 25L

SDS No. : 429696
V001.5
Revision: 01.03.2022
printing date: 19.04.2022

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: BONDERITE C-IC 624 ACID CLEANER known as Deoxidine 624 25L

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 Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.
Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

HSNO Classification:

8.1A Class 8 - Corrosiveness, Subclass 8.1 - Metallic corrosive, Hazard Classification A
Class 6 - Toxicity, Subclass 6.3 - Skin irritant, Hazard Classification A
Class 6 - Toxicity, Subclass 6.4 - Eye irritant, Hazard Classification A
Class 9 - Ecotoxicity, Subclass 9.1 - Aquatic, Hazard Classification D

GHS Classification:

Hazard Class	Hazard Category
Corrosive to metals	Category 1
Skin irritation	Category 2
Serious eye irritation	Category 2A

Hazard pictogram:

Signal word: Warning

Hazard statement(s):

H290 May be corrosive to metals.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statement(s):

Prevention:

P234 Keep only in original packaging.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves, eye protection, and face 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 advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P390 Absorb spillage to prevent material damage.

Storage:

P406 Store in corrosive resistant container with a resistant inner liner.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description:

Mixture
inorganic acids

Type of preparation:

Rust removing compound

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
phosphoric acid	7664-38-2	10- < 20 %
2-butoxyethanol	111-76-2	1- < 10 %
non hazardous ingredients~		60- <= 100 %

SECTION 4 FIRST AID MEASURES

Ingestion:

Rinse mouth, do not induce vomiting, consult a doctor.

Skin:

Immediately wash skin thoroughly with soap and water.

Eyes:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

First Aid facilities:

Eye wash and safety shower
Normal washroom facilities

Most important symptoms caused by exposure:

Causes burns.

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 dioxide. carbon monoxide phosphorus oxides Irritating organic vapours.
Particular danger in case of fire:	In case of fire toxic gases can be released.
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
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:	Wear protective equipment. Keep unprotected persons away.
Environmental precautions:	Absorb spill with inert material. Shovel material into appropriate container for disposal.
Clean-up methods:	Dispose of contaminated material as waste according to Section 13. Wash away residue with plenty of water. Do not empty into drains / surface water / ground water.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:	Ensure that workrooms are adequately ventilated. In case of fire, cool container with jet of water. Avoid skin and eye contact. Gloves and safety glasses should be worn
Conditions for safe storage:	Store in sealed original container. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Keep away from food, beverages and animal feed. Must be stored in the facility for the dangerous goods Store away from incompatible materials.
Suitable materials with product:	Glass Only use approved steel and plastic containers.
Unsuitable materials with product:	Avoid contact with aluminium, zinc and tin.

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)
PHOSPHORIC ACID 7664-38-2			1			-
2-BUTOXYETHANOL 111-76-2		25	121			-

Biological Exposure Indices:
None

Engineering controls: Use general ventilation.

Eye protection: Protective goggles

Skin protection: Suitable protective clothing
Suitable protective gloves.
Neoprene gloves.
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.
Nitrile gloves.

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: Avoid spraying/aerosol generation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: colourless
clear
Odor: mild
Specific gravity: 1.10 - 1.15
Solubility in water: Miscible

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Contact with aluminium, tin or zinc may generate hydrogen, a flammable gas.

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Excessive heat.

Incompatible materials: Reaction with metals: production of hydrogen.
Reaction with oxidants.
Reacts violently with alkalis: Heat generated.

Hazardous decomposition products: In case of fire toxic gases can be released.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:

Ingestion: May cause mild gastrointestinal irritation with nausea, vomiting, diarrhea and abdominal pain.

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

Eyes: Causes serious eye irritation.
Symptoms may include severe irritation, pain, tearing, blurred vision.

Inhalation: Mists, vapors or liquid may cause severe irritation or burns.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
phosphoric acid 7664-38-2	Acute toxicity estimate (ATE)	1,500 mg/kg	oral			Expert judgement
2-butoxyethanol 111-76-2	Acute toxicity estimate (ATE) LD0 LD50	1,200 mg/kg > 2,000 mg/kg > 2,000 mg/kg	oral dermal dermal		guinea pig guinea pig	Expert judgement OECD Guideline 402 (Acute Dermal Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
phosphoric acid 7664-38-2	corrosive	24 h	rabbit	not specified
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
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
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
phosphoric acid 7664-38-2	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)
2-butoxyethanol 111-76-2	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)
2-butoxyethanol 111-76-2	negative	intraperitoneal		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
phosphoric acid 7664-38-2	NOAEL=250 mg/kg	oral: gavage	6 wdaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2-butoxyethanol 111-76-2	NOAEL=0.121 mg/l	inhalation	42 or 90 days6 hours/day, 5 days/week	rat	not specified
2-butoxyethanol 111-76-2	NOAEL=< 69 mg/kg	oral: drinking water	90 dcontinous	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: Harmful to aquatic life.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
phosphoric acid 7664-38-2	LC50	> 100 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
phosphoric acid 7664-38-2	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
phosphoric acid 7664-38-2	EC50	> 100 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
phosphoric acid 7664-38-2	NOEC	100 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
phosphoric acid 7664-38-2	IC50	270 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
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	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-butoxyethanol 111-76-2	NOEC	286 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-butoxyethanol 111-76-2	EC0	1,000 mg/l	Bacteria	30 min		not specified

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" BiodegradabilityClosed Bottle Test)

Bioaccumulative potential / Mobility in soil:

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

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal of product: Collection and delivery to recycling enterprise or other registered elimination institution.

Recommended cleanser: Clean the packaging with water.

Disposal for uncleaned package: Use packages for recycling only when totally empty.

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.:	1805
Proper shipping name:	PHOSPHORIC ACID SOLUTION
Class or division:	8
Packing group:	III
Hazchem code:	2R

Marine transport IMDG:

UN no.:	1805
Proper shipping name:	PHOSPHORIC ACID SOLUTION
Class or division:	8
Packing group:	III
EmS:	F-A ,S-B
Seawater pollutant:	-

Air transport IATA:

UN no.:	1805
Proper shipping name:	Phosphoric acid, solution
Class or division:	8
Packing group:	III
Packing instructions (passenger)	852
Packing instructions (cargo)	856

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:

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

Reason for issue:

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

Date of previous issue:

30.05.2017

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.
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