

SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name or designation of the mixture	Permawood Cut End Preservative
Registration number	-
Product registration number	Not available.
Synonyms	None.
Issue date	19-December-2012
Version number	03
Revision date	11-November-2013
Supersedes date	09-October-2013

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Wood preservative for amateur, professional and industrial use against wood rotting fungi and wood destroying insects.
Uses advised against	This product should be used only for the treatment of wood as described above.

1.3 Details of the supplier of the safety data sheet

UK

Company name	Impra Wood Protection Ltd
Address	Park Road. Industrial Estate, Barrow-in-Furness, Cumbria LA14 4EQ United Kingdom
Telephone	+44 (0) 1229 877533
Fax	+44 (0) 1229 430761
e-mail	sales@impra.co.uk
Website	www.impra.biz
1.4 Emergency number	+44 (0) 23 8070 2576

Section 2: Hazards identification

2.1 Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification N;R50/53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.

Environmental hazards

Hazardous to the aquatic environment - acute hazard	Category 1	H400 - Very toxic to aquatic life.
Hazardous to the aquatic environment - long-term hazard	Category 1	H410 - Very toxic to aquatic life with long lasting effects.

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards	Causes serious eye damage. Causes skin irritation. Occupational exposure to the substance or mixture may cause adverse health effects.
Environmental hazards	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Specific hazards	Irritating to eyes. Irritating to skin.
Main symptoms	Irritation of eyes and mucous membranes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

2.2 Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Boric acid, Copper carbonate (basic), Monoethanolamine



Signal word	Danger
Hazard statements	H315 - Causes skin irritation. H318 - Causes serious eye damage. H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention	P280 - Wear protective gloves. P264 - Wash thoroughly after handling. P273 - Avoid release to the environment.
Response	P302 + P352 - IF ON SKIN: Wash with plenty of soap and 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. P308 + P313 - IF exposed or concerned: Get medical advice/attention.
Storage	Not applicable
Disposal	P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information Not applicable.

2.3 Other hazards Not assigned.

Section 3: Composition/information on ingredients

Mixture

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Water	80 - 90	7732-18-5 231-791-2	-	-	
Classification:	DSD: - CLP: -				
Monoethanolamine	4.2	141-43-5 205-483-3	01-2119486455-28-xxxx	603-030-00-8	#
Classification:	DSD: C;R34, Xn;R20/21/22 CLP: Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1B;H314, Acute Tox. 4;H332, STOT SE 3;H335				
Boric acid	3.3	10043-35-3 233-139-2	Biocide	005-007-00-2	
Classification:	DSD: Repr. Cat. 2;R60-61 CLP: Repr. 1B;H360FD				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Copper carbonate (basic)	2.3	12069-69-1 235-113-6	Biocide	-	#
Classification:	DSD: Xn;R20-22, N;R50/53				
	CLP: Acute Tox. 4;H302, Acute Tox. 4;H332, Aquatic Acute 1;H400, Aquatic Chronic 1;H410				

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

#: This substance has workplace exposure limit(s).

Composition comments The full text for all R- and H-phrases is displayed in section 16.

The classification and risk phrases of the biocide ingredients in this formulation are as detailed in their BPD dossiers (98/8/EC)

Section 4: First aid measures

General information

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off contaminated clothing and shoes immediately. In case of shortness of breath, give oxygen. Keep victim warm. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

4.1 Description of first aid measures

Inhalation

Under normal conditions of intended use, this material is not expected to be an inhalation hazard. IF exposed or concerned: Get medical advice/attention. Move to fresh air.

Skin contact

Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation occurs: Get medical advice/attention. Wash clothing separately before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Centre immediately.

Ingestion

If material is ingested, immediately contact a physician or poison control centre. If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

4.2 Most important symptoms and effects, both acute and delayed

Irritation of eyes and mucous membranes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

4.3 Indication of any immediate medical attention and special treatment needed

Keep victim warm. If breathing is difficult, give oxygen. Treat symptomatically.

Section 5: Firefighting measures

General fire hazards

This product is an aqueous mixture which will not burn.

5.1 Extinguishing media

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. Water. Water spray. Foam. Dry powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

None known.

5.2 Special hazards arising from the substance or mixture

No unusual fire or explosion hazards noted.

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective clothing.

Special firefighting procedures

Move containers from fire area if you can do it without risk. Water runoff can cause environmental damage. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** Local authorities should be advised if significant spillages cannot be contained.
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unnecessary personnel away.
- For emergency responders** Use personal protection recommended in Section 8 of the MSDS.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
Contact local authorities in case of spillage to drain/aquatic environment.

6.3 Methods and material for containment and cleaning up

Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas. Prevent product from entering drains. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean contaminated surface thoroughly.

Small Spills: Collect and dispose of spillage as indicated in section 13. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Prevent product from entering drains.

6.4 Reference to other sections

For personal protection, see section 8 of the SDS.
For waste disposal, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Do not get in eyes, on skin, on clothing.
Avoid breathing mist or vapour.
When using, do not eat, drink or smoke.
Wash thoroughly after handling.
Avoid release to the environment.
Do not empty into drains. Use appropriate container to avoid environmental contamination.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local/regional/national/international regulation.
Keep in a bunded area. Store in original tightly closed container. Store locked up.
Keep away from food, drink and animal feeding stuffs.
Keep out of the reach of children.
Use appropriate container to avoid environmental contamination.
Treated wood must be held until surfaces are dry within a bunded area on a site which is maintained to prevent loss of treatment product to the environment

7.3 Specific end use(s)

The specified uses for this material are shown in section 1 of this document

Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

United Kingdom

Components	Type	Value	Form
Copper carbonate (basic) (12069-69-1)	STEL	2 mg/m ³	as Cu (dusts and mists)
	TWA	1 mg/m ³	as Cu (dusts and mists)
Monoethanolamine (141-43-5)	STEL	3 ppm	
	TWA	7.6 mg/m ³	
		2.5 mg/m ³	
		1 ppm	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

DNEL

Components	Type	Route	Value	Form
Monoethanolamine (141-43-5)	Industry	Dermal	1 mg/kg bw/day	long term, systemic effect

Components	Type	Route	Value	Form
		Inhalation	3.3 mg/m ³	long term, local effect

PNEC

Components	Type	Route	Value	Form
Monoethanolamine (141-43-5)	Not applicable	Sediment	0.425 mg/kg	dry wt, freshwater
		Soil	0.035 mg/kg	dry wt
		STP	100 mg/l	
		Water	0.085 mg/l	freshwater

8.2 Exposure controls

Appropriate engineering controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment

General information	Use personal protective equipment as required. Eye wash fountain is recommended. Keep working clothes separately.
Eye/face protection	Avoid contact with eyes. Wear eye/face protection. Chemical goggles and face shield are recommended.
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves. Impervious butyl rubber gloves. Gauntlets
- Other	Avoid contact with the skin. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Use of impervious boots is recommended. Remove and wash contaminated clothing before re-use. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Thermal hazards	Not applicable.
Hygiene measures	Do not get this material in your eyes, on your skin, or on your clothing. Keep away from food and drink. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practices.
Environmental exposure controls	Avoid release to the environment. Contain spills and prevent releases and observe national regulations on emissions. Environmental manager must be informed of all major releases.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Form	Liquid.
Colour	Brown.
Odour	Slight.
pH	Not available
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.
Flammability (solid, gas)	Not applicable.
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.

Vapour pressure	Not applicable.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Relative density	Not available.
Density	Not available
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Percent volatile	93 % estimated
9.2 Other information	No relevant additional information available.

Section 10: Stability and reactivity

10.1 Reactivity	None known.
10.2 Chemical stability	Stable at normal conditions.
10.3 Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4 Conditions to avoid	Extremes of temperature and direct sunlight. Do not freeze.
10.5 Incompatible materials	None known.
10.6 Hazardous decomposition products	Irritants.

Section 11: Toxicological information

General information Incomplete toxicological data are available for this product.
Data shown in this section has been published in the substance(s) REACH dossier

Information on likely routes of exposure

Ingestion	Not applicable
Inhalation	Not applicable
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.

Symptoms Permanent eye damage including blindness could result. Irritant effects.

11.1 Information on toxicological effects

Acute toxicity Not classified

Components

Test results

Boric acid (10043-35-3)	Acute Dermal LD50 Rabbit: > 2000 mg/kg Acute Inhalation LC50 Rat: > 2 mg/l 5.00 Hours Acute Oral LD50 Rat: > 2600 mg/kg
Monoethanolamine (141-43-5)	Acute Dermal LD50 Rabbit: 2504 - 2881 mg/kg bw Acute Inhalation LC50 Rat: > 1.3 mg/l 6.00 hours saturated air Acute Oral LD50 Rat: 1089 - 1515 mg/kg bw

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory sensitisation	Not classified.
Skin sensitisation	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.

Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not classified.
Mixture versus substance information	None known.
Other information	Not available.

Section 12: Ecological information

12.1 Toxicity

Components	Test results
Boric acid (10043-35-3)	LC50 Colorado squawfish (<i>Ptychocheilus lucius</i>): > 100 mg/l 96.00 hours
Monoethanolamine (141-43-5)	EC50 Algae: 2.5 mg/l 72.00 hours LC50 Carp (<i>Cyprinus carpio carpio</i>): 349 mg/l 96.00 hours EC50 Daphnia: 65 mg/l 48.00 hours

* Estimates for product may be based on additional component data not shown.

Ecotoxicity	Very toxic to aquatic life with long lasting effects.
12.2 Persistence and degradability	The product contains inorganic compounds which are not biodegradable. The other components of the product are slowly biodegradable.
12.3 Bioaccumulative potential	Not available.
Mobility	The product is miscible with water. May spread in water systems.
Environmental fate - Partition coefficient	Not available.
12.4 Mobility in soil	Not established.
12.5 Results of PBT and vPvB assessment	Not available.
12.6 Other adverse effects	Harmful to aquatic life with long lasting effects. Do not discharge into drains, water courses or onto the ground. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13: Disposal considerations

13.1 Waste treatment methods

Residual waste	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with local regulations. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.
EU waste code	Waste codes should be assigned by the user based on the application for which the product was used. The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Dispose of contents/container in accordance with local/regional/national/international regulations. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. This material and its container must be disposed of in a safe way.

Section 14: Transport information

ADR

14.1 UN number	UN3082
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14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
14.3 Transport hazard class(es)	9
Subsidiary class(es)	-
14.4 Packing group	III
Labels required	9
14.6 Special precautions for user	Not available.

IATA

14.1 UN number	UN3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
14.3 Transport hazard class(es)	9
Subsidiary class(es)	-
14.4 Packing group	III
Environmental hazards	No
14.6 Special precautions for user	Not available.

IMDG

14.1 UN number	UN3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
14.3 Transport hazard class(es)	9
Subsidiary class(es)	-
14.4 Packing group	III
Marine pollutant	No
EmS No.	F-A, S-F
14.6 Special precautions for user	Not available.



ADR



IATA



IMDG

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.
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Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Commission Decision 2000/479/EC on the implementation of a European pollutant emission register (EPER)

Copper carbonate (basic) (CAS 12069-69-1)

Regulation (EC) No. 1907/2006, Article 59(1). Candidate List

Boric acid (CAS 10043-35-3)

Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

The product is classified and labelled in accordance with EC directives or respective national laws.

In the EU, this product falls under the Directive on biocide products 98/8/EC. Use biocides safely. Always read the label and product information before use.

Guidance on the safe use of wood preservatives is provided in leaflet WIS 29 ("Occupational hygiene and health surveillance at industrial treatment plants") at www.hse.gsi.gov.uk

The COSHH (Control of Substances Hazardous to Health) Regulations 2002 (as amended) apply to the use of this product at work.

National regulations

Not available.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Section 16: Other information

List of abbreviations Not available.

References Not available.

Information on evaluation method leading to the classification of mixture Not available.

Full text of any statements or R-phrases and H-phrases under Sections 2 to 15

R20 Harmful by inhalation.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R22 Harmful if swallowed.
R34 Causes burns.
R37 Irritating to respiratory system.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R60 May impair fertility.
R61 May cause harm to the unborn child.
H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.
H314 - Causes severe skin burns and eye damage.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H360D - May damage the unborn child.
H360F - May damage fertility.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

Training information

Not available.

Disclaimer

MANUFACTURER DISCLAIMER: The information given within this SDS is correct to the best of our knowledge, information and belief at the date of its revision and publication. However, the manufacturer makes no representation, warranty or guarantee as to its accuracy, reliability or completeness, nor assumes any liability for its use. It is the user's responsibility to confirm in advance that the information is current, applicable and suitable to their circumstances for each particular use. No representative of ours has authority to waive this provision. Please call for document accuracy if the revision date has exceeded 3 years.

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