



SAFETY DATA SHEET

WILLOWCHEM BIOPASS

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Compilation date: 18/09/2015

Revision date: 18/09/2015

Revision No: 1

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

1.1. Product identifier

Product name: WILLOWCHEM BIOPASS

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

Use of substance / mixture: Stainless steel passivation & sanitising solution (biodegradable & low hazard product).
PC8: Biocidal products (e.g. Disinfectants, pest control). PC14: Metal surface treatment products, including galvanic and electroplating products.

1.3. Details of the supplier of the safety data sheet

Company name: MPE Limited
Unit 6/7 Hirwaun Industrial Estate
Hirwaun, Aberdare
Rhondda Cynon Taff
CF44 9UP
United Kingdom
Tel: 01685 812765

Email: sales@mpelimited.co.uk

1.4. Emergency telephone number

Emergency tel: 01685 812765

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: This product has no classification under CHIP.

Classification under CLP: This product has no classification under CLP.

2.2. Label elements

Label elements: This product has no label elements.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

[cont...]

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Hazardous ingredients:

HYDROGEN PEROXIDE SOLUTION

EINECS	CAS	CHIP Classification	CLP Classification	Percent
231-765-0	7722-84-1	-: R5; O: R8; Xn: R20/22; C: R35	Ox. Liq. 1: H271; Acute Tox. 4: H332; Acute Tox. 4: H302; Skin Corr. 1A: H314	1-10%

Contains: Silver

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. If irritation develops or persists seek medical attention.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If irritation develops or persists seek medical attention.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Move to fresh air in case of accidental inhalation of vapours. If symptoms develop seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: * There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.

Eye contact: * There may be irritation and redness. The eyes may water profusely. Repeated exposure may cause chronic eye irritation.

Ingestion: * May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.

Inhalation: * Not applicable under normal conditions of use. May cause irritation of the mucous membranes and respiratory system. Prolonged inhalation of mists may cause lung inflammation.

Delayed / immediate effects: * Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: * Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: * Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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5.2. Special hazards arising from the substance or mixture

Exposure hazards: * Non-combustible. Liberates oxygen easily when heated and may cause fire or explosions in contact with combustible material. May produce flammable Hydrogen gas when in contact with metals, with obvious explosion hazards. Keep containers exposed to fire cool with waterspray.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear suitable protective clothing. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Remove all incompatible materials as outlined in section 10 of SDS.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: * Absorb into dry earth or sand. Mix with sand or vermiculite. Transfer to a suitable container. Refer to section 13 of SDS for suitable method of disposal. Wash the spillage site with large amounts of water.

6.4. Reference to other sections

Reference to other sections: * Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: * Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Avoid contact with the material. Wear suitable protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: * Store in a cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Avoid incompatible materials and conditions - see section 10 of SDS. Avoid exposure to sources of heat greater than 40 °C.

Suitable packaging: * Plastic. Plastic-lined.

7.3. Specific end use(s)

Specific end use(s): * No special requirement.

Section 8: Exposure controls/personal protection

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8.1. Control parameters

*** Workplace exposure limits:**

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1ppm (1.4 mg/m ³) As H ₂ O ₂	2ppm (2.8 mg/m ³) as H ₂ O ₂	-	-

Hazardous ingredients:

HYDROGEN PEROXIDE SOLUTION...100%

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1.4 mg/m ³	2.8 mg/m ³	-	-

DNEL/PNEC Values

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Type	Exposure	Value	Population	Effect
DNEL	Inhalation	3 mg/m ³ (As H ₂ O ₂)	Workers	Local
DNEL	Inhalation (repeated dose)	1.4 mg/m ³ (As H ₂ O ₂)	Workers	Local
DNEL	Inhalation	1.93 mg/m ³ (As H ₂ O ₂)	General Population	Local
DNEL	Inhalation (repeated dose)	0.21 mg/m ³ (As H ₂ O ₂)	General Population	Local
PNEC	Freshwater	0.0126 mg/l	-	-
PNEC	Marine Water	0.0126 mg/l	-	-
PNEC	Sediment - Freshwater	0.047 mg/kg dwt	-	-
PNEC	Sediment - Marine Water	0.047 mg/kg dwt	-	-
PNEC	Soil	0.0023 mg/kg dwt	-	-
PNEC	Sewage Treatment Plant (STP)	4.66 mg/l	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

Respiratory protection: * Not normally required under normal conditions of use. Wear suitable respiratory protection when aerosols or mist are present. Gas/vapour filter, type B: inorganic vapours excl. CO (EN141).

Hand protection: * Protective gloves. Gloves (acid resistant).

Eye protection: Safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing. Boots.

Environmental: No special requirement.

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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Odourless

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Miscible in all proportions

Also soluble in: Ethanol.

Viscosity: Non-viscous

Boiling point/range°C: * >100

Flash point°C: * >93

Part.coeff. n-octanol/water: -1.57 (ASs 50 % H₂O₂)

Relative density: ~1.005 g/ml

pH: ~ 5

9.2. Other information

Other information: * Product is not flammable. Much of physical chemical data is based upon primary ingredient. No further information available at this time.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: * Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: * Stable under normal conditions. Product will naturally degrade with time. Exposure to heat and light will accelerate the decomposition rate.

10.3. Possibility of hazardous reactions

Hazardous reactions: * Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: * Direct sunlight. Heat.

10.5. Incompatible materials

Materials to avoid: * Strong acids. Strong bases. Reducing agents. Oxidising agents. Will decompose upon contact with some metals. May react with certain metals to liberate flammable Hydrogen gas. Organic material.

10.6. Hazardous decomposition products

Haz. decomp. products: * Will liberate Oxygen which may increase risk of fire and/or explosion.

Section 11: Toxicological information

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11.1. Information on toxicological effects

* Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	> 2000	mg/kg
DUST/MIST	RAT	4H LC50	2000	mg/kg
DERMAL	RBT	LD50	> 2000	mg/kg

Hazardous ingredients:

HYDROGEN PEROXIDE SOLUTION...100%

ORL	MUS	LD50	2	gm/kg
ORL	RAT	LD50	376	mg/kg
SKN	RAT	LD50	4060	mg/kg

Symptoms / routes of exposure

Skin contact: * There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.

Eye contact: * There may be irritation and redness. The eyes may water profusely. Repeated exposure may cause chronic eye irritation.

Ingestion: * May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.

Inhalation: * Not applicable under normal conditions of use. May cause irritation of the mucous membranes and respiratory system. Prolonged inhalation of mists may cause lung inflammation.

Delayed / immediate effects: * Immediate effects can be expected after short-term exposure.

Other information: * There is no further information at this time.

Section 12: Ecological information

12.1. Toxicity

* Ecotoxicity values:

Species	Test	Value	Units
FISH (Pimephales promelas)	96H LC50	> 16.4	mg/l
DAPHNIA (Daphnia pulex)	48H EC50	> 2.4	mg/l
Chlorella vulgaris	72H EC50	> 2.5	mg/l
CHANNEL CATFISH (Ictalurus punctatus)	96H LC50	> 37.4	mg/l
Daphnia magna	24H EC50	> 7.7	mg/l

12.2. Persistence and degradability

Persistence and degradability: The product is readily biodegradable.

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12.3. Bioaccumulative potential

Bioaccumulative potential: * The product does not bioaccumulate.

12.4. Mobility in soil

Mobility: * Non-volatile. Soluble in water. Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: * Not expected to cause significant environmental impact. Do not allow to enter watercourses or soils. Spillage in sewers or waterways must be avoided.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: * Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations: * No information available at this time.

Disposal of packaging: Contaminated containers must not be treated as household waste. Where practical, containers and packaging should be recycled by a licenced contactor.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

Specific regulations: * Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products. Toy Safety Directive 2009/48/EC of the European Parliament and of the Council on cosmetic products. This products useage may be controlled under BPR (Biocidal Products Regulation (EC) No. 528/2012).

15.2. Chemical Safety Assessment

Chemical safety assessment: * A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: * This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

This safety data sheet is prepared in accordance with Commission Regulation (EC) No

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1272/2008.

* indicates text in the SDS which has changed since the last revision.

WARNING: For professional use only.

Phrases used in s.2 and s.3: H271: May cause fire or explosion; strong oxidiser.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H332: Harmful if inhaled.

R5: Heating may cause an explosion.

R8: Contact with combustible material may cause fire.

R20/22: Harmful by inhalation and if swallowed.

R35: Causes severe burns.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.