



SAFETY DATA SHEET

WILLOWCHEM 90

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Compilation date: 20/09/2007

Revision date: 25/09/2015

Revision No: 3

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

1.1. Product identifier

Product name: * WILLOWCHEM 90

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

Use of substance / mixture: Metal Treatment.

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: C: R35

Classification under CLP: Skin Corr. 1A: H314

Most important adverse effects: Causes severe burns.

2.2. Label elements

Label elements:

Hazard statements: * H314: Causes severe skin burns and eye damage.

Signal words: * Danger

Hazard pictograms: * GHS05: Corrosion



Precautionary statements: * P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

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P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: IF exposed or concerned: Get medical advice/attention.

P501: Dispose of contents/container to an approved recycle or waste disposal facility.

Label elements under CHIP:

Hazard symbols: Corrosive.



Risk phrases: R35: Causes severe burns.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

ORTHOPHOSPHORIC ACID

EINECS	CAS	CHIP Classification	CLP Classification	Percent
231-633-2	7664-38-2	C: R34	Skin Corr. 1B: H314	30-50%

SULPHURIC ACID

231-639-5	7664-93-9	C: R35	Skin Corr. 1A: H314	30-50%
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TRIBUTYLAMINE - REACH registered number(s): 01-2119474898-14-XXXX

203-058-7	102-82-9	T: R23/24/25; Xi: R36/38; N: R51/53	Skin Irrit. 2: H315; Eye Irrit. 2: H319; Aquatic Chronic 2: H411; Acute Tox. 2: H310+330; Acute Tox. 3: H301	<1%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: * Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: * Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: * Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.

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. Consult a doctor.

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

Skin contact: * Causes burns. Severe burns may occur. Blistering may occur.

Eye contact: * Risk of serious damage to eyes. Corneal burns may occur. There may be severe pain. May cause permanent damage.

Ingestion: * May cause throat burns. Causes burns to the gastrointestinal tract.

Inhalation: * There may be irritation of the throat with a feeling of tightness in the chest. Prolonged or repeated exposure may cause ulceration and perforation of the nasal septum. 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. Immediate medical attention is required. A decontamination shower should be available on the premises. 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.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: The product does not support combustion. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides. In combustion emits toxic fumes of sulphur oxides.

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

6.3. Methods and material for containment and cleaning up

Clean-up procedures: * Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Refer to section 13 of SDS for suitable

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method of disposal. Wash the spillage site with large amounts of water. For small spillages: Neutralise spillage with alkaline material (i.e. soda ash, sodium bicarbonate).

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

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: * Store in a cool, well ventilated area. Keep container tightly closed. Do not store near foodstuffs. Avoid incompatible materials and conditions - see section 10 of SDS.

Suitable packaging: * Must only be kept in original packaging. Plastic. Plastic-lined. Some rubbers and plastics are attacked by the product.

7.3. Specific end use(s)

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

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.3 mg/m ³	-	-	-

Hazardous ingredients:

ORTHOPHOSPHORIC ACID...100%

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1 mg/m ³	2 mg/m ³	-	-

SULPHURIC ACID...100%

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.05 mg/m ³	-	-	-

DNEL/PNEC Values

DNEL / PNEC No data available.

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: * Wear suitable respiratory protection if exposure levels approach or exceed the stated

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exposure levels. Wear suitable respiratory protection when aerosols or mist are present.
Gas/vapour filter, type B: inorganic vapours excl. CO (EN141). Gas/vapour filter, type A:
organic vapours (EN141).

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

Eye protection: * Safety glasses. Face-shield. Ensure eye bath is to hand.

Skin protection: * Protective clothing. Wear full chemical suit. Wear wellingtons. Ensure safety shower is to hand.

Environmental: * No special requirement. Prevent from entering in public sewers or the immediate environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless to pale yellow.

Odour: Perceptible odour

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Miscible in all proportions

Viscosity: Oily

Flash point°C: >93

Relative density: ~ 1.72 g/ml @ 20°C

pH: ~ 1 (1 % Aqu.)

9.2. Other information

Other information: Product is not flammable. 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.

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. Moisture.

10.5. Incompatible materials

Materials to avoid: * Water. Alkalis. Oxidising agents. Strong reducing agents. Finely powdered metals.
Combustibles.

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10.6. Hazardous decomposition products

Haz. decomp. products: * In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of sulphur oxides. In combustion emits toxic fumes of nitrogen oxides.

Section 11: Toxicological information

11.1. Information on toxicological effects

* Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	> 2000 (Calc.)	mg/kg

Hazardous ingredients:

ORTHOPHOSPHORIC ACID...100%

ORL	RAT	LD50	1530	mg/kg
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SULPHURIC ACID...100%

ORL	RAT	LD50	2140	mg/kg
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TRIBUTYLAMINE

DERMAL	RBT	LD50	0.25	mg/kg
ORAL	RAT	LD50	114	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Corrosivity	OPT INH DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: * Causes burns. Severe burns may occur. Blistering may occur.

Eye contact: * Risk of serious damage to eyes. Corneal burns may occur. There may be severe pain.
May cause permanent damage.

Ingestion: * May cause throat burns. Causes burns to the gastrointestinal tract.

Inhalation: * There may be irritation of the throat with a feeling of tightness in the chest. Prolonged or repeated exposure may cause ulceration and perforation of the nasal septum.
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

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* Ecotoxicity values:

Species	Test	Value	Units
Daphnia magna	48H EC50	> 100 (Calc.)	mg/l

12.2. Persistence and degradability

Persistence and degradability: * Mixture of organic & inorganic components, thus can not be classified as biodegradable. Components will degrade in water and soil.

12.3. Bioaccumulative potential

Bioaccumulative potential: * Product is not expected to bioaccumulate.

12.4. Mobility in soil

Mobility: * Non-volatile. Soluble in water.

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: * Large doses causes high/low pH which may affect effluent and sewage treatment processes. Discharge of large quantities may kill fish and other aquatic life due to increase/decrease in pH. 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

14.1. UN number

UN number: UN3264

14.2. UN proper shipping name

Shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(ORTHOPHOSPHORIC ACID & SULPHURIC ACID)

14.3. Transport hazard class(es)

Transport class: 8

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14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: E

Transport category: 2

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: * No information available.

Section 15: Regulatory information

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

Specific regulations: * This product is controlled under Regulation (EU) No 98/2013 on the marketing and use of explosives precursors, and The Control of Explosive Precursor Regulations 2014 (SI 1942).

15.2. Chemical Safety Assessment

Chemical safety assessment: * A chemical safety assessment has not 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 1272/2008.

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

WARNING: For professional use only.

There are no levels set for this product thus normal standards of industrial hygiene should be observed.

The 8 hour TWA OEL stated is a recommended one, as the OES for the product is currently under review and CHAN notice has been applied to the product.

Phrases used in s.2 and s.3: H301: Toxic if swallowed.

H310+330: Fatal in contact with skin or if inhaled.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

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R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

R34: Causes burns.

R35: Causes severe burns.

R36/38: Irritating to eyes and skin.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.