

MSDS

Material Safety Data Sheet

SAFETY DATA SHEET WILLOWCHEM 91

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME WILLOWCHEM 91

SUPPLIER WILLOWCHEM TECHNOLOGY LIMITED

UNIT 6 & 7 HIRWAUN INDUSTRIAL ESTATE

HIRWAUN

MID GLAMORGAN SOUTH WALES

CF44 9YE

Telephone Number: 01685 812211

EMERGENCY TELEPHONE 24 hour Emergency Contact Number: 01685 812211

e-mail address of Competent Person: colinowen@willowchem.co.uk

2 HAZARDS IDENTIFICATION

Causes severe burns.

CLASSIFICATION C;R35.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
PHOSPHORIC ACID%	231-633-2	7664-38-2	36-50%	C;R34
SULPHURIC ACID%	231-639-5	7664-93-9	36-50%	C;R35

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Keep the affected person warm and at rest. Get prompt medical attention. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately! Provide rest, warmth and fresh air.

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Rinse the skin immediately with lots of water. Get medical attention immediately

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

SPECIFIC HAZARDS

Fire creates: Toxic gases/vapours/fumes of Sulphurous gases (SOx). Phosphoric acid mist.

PROTECTIVE MEASURES IN FIRE

Wear self-contained breathing apparatus and protective clothing (including fire-fighting helmet, coat, trousers, boots and gloves).

6 ACCIDENTAL RELEASE MEASURES

WILLOWCHEM 91

PERSONAL PRECAUTIONS

In case of a major spillage, full protective equipment including a respirator or self-contained breathing apparatus must be worn.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter sewers or water courses. If spillage does enter sewers or water courses, immediately inform appropriate authorities.

SPILL CLEAN UP METHODS

DO NOT TOUCH SPILLED MATERIAL! Wear necessary protective equipment. Neutralise small amounts with sodium bicarbonate or lime and flush to sewer with large amounts of water. Large spills, dilute, then neutralise with caustic solution. Absorb in vermiculite, dry sand or earth and place into containers. Flush area with plenty of water.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Eye wash facilities and emergency shower must be available when handling this product.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
PHOSPHORIC ACID%	WEL		1 mg/m3		2 mg/m3

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits OES - The HSE has issued a Chemical Hazard Alert Notice (CHAN 25) for sulphuric acid mist and has recommended that the present Occupational Exposure Standard of 1mg/m3 is too high and should be reduced to 0.3 mg/m3.

PROTECTIVE EQUIPMENT







ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use protective gloves made of: Rubber (natural, latex). Butyl rubber. Neoprene. Polyethylene. P.T.F.E (Teflon). or Polyethylene/Ethylene Vinyl Alcohol (PF/FVAI)

EYE PROTECTION

Use approved safety goggles or face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Light viscous liquid

COLOUR Colourless

ODOUR Slight odour

SOLUBILITY Completely soluble in water

RELATIVE DENSITY 1.76 @ 16°C pH-VALUE, DILUTED SOLUTION ~ 1 1%

10 STABILITY AND REACTIVITY

STABILITY

Avoid: Heat, sparks, flames. Moisture. Mixing with any other material. Contact with combustibles.

WILLOWCHEM 91

CONDITIONS TO AVOID

Reacts strongly with water. Avoid contact with: Strong alkalis.

MATERIALS TO AVOID

Bases, alkalies (inorganic). Strong oxidising substances. Strong reducing agents. Massive, solid metal. Powdered metal. Water, steam, water mixtures.

Flammable/combustible material. Amines. Inorganic nitrates.

HAZARDOUS DECOMPOSITION PRODUCTS

Very toxic gases/vapours/fumes of: Oxides of: Sulphur. Phosphoric acid mist.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 2140 mg/kg (oral rat)

HEALTH WARNINGS

Gas or vapour is harmful on prolonged exposure or in high concentration. This chemical may cause skin/eye irritation and burns (corrosive). Severe pulmonary irritant. Toxic through skin absorption (percutaneous)

Repeated exposure may cause chronic eye irritation. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight. Perforated septum (damage to partition between cavities). Repeated exposure may cause chronic upper respiratory irritation. Tracheobronchitis, pulmonary oedema. Leucopenia (decreased number of leucocytes in the blood). Burning pain and severe corrosive skin damage. Swallowing concentrated chemical may cause severe internal injury. Erosion of exposed front teeth. Prolonged or repeated contact: Serious damage to the lining of nose, throat and lungs.

ROUTE OF ENTRY

Inhalation. Ingestion. Skin and/or eye contact.

TARGET ORGANS

Eyes. Gastro-intestinal tract. Respiratory system, lungs. Skin. Teeth.

MEDICAL SYMPTOMS

Extreme irritation of eyes and mucous membranes, including burning and tearing. Rhinitis (inflammation of the nasal mucous membranes). Epistaxis (nose bleeding). Pharyngitis (inflammation of back of mouth). Severe pulmonary irritation. General respiratory distress, unproductive cough. Severe skin irritation. Nausea, vomiting. Severe abdominal pain.

MEDICAL CONSIDERATIONS

Skin disorders and allergies.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

LC 50, 96 Hrs, FISH mg/l 42 EC 50, 48 Hrs, DAPHNIA, mg/l 29

MOBILITY

Soluble in water

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Mix slowly with NaHCO3, neutralise and flush to sewer with lots of water. Absorb in vermiculite or dry sand, dispose in licensed hazardous waste. Neutralise with soda ash/slaked lime and discharge to sewer with lots of water. Confirm disposal procedures with environmental engineer and local regulations. Wash to drains with lots of water.

14 TRANSPORT INFORMATION



UK ROAD CLASS 8

PROPER SHIPPING NAME CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains phosphoric acid and sulphuric acid0

UN NO. ROAD 3264 UK ROAD PACK GR. II

ADR CLASS NO. 8 ADR CLASS Class 8: Corrosive substances.

ADR PACK GROUP II HAZARD NO. (ADR) 80 Corrosive or slightly corrosive

substance.

ADR LABEL NO. 8 HAZCHEM CODE 2R

REVISION DATE: 20/09/07

WILLOWCHEM 91

CEFIC TEC(R) NO. 10A

15 REGULATORY INFORMATION

LABELLING

Corrosive

S26

CONTAINS PHOSPHORIC ACID

SULPHURIC ACID

RISK PHRASES

R35 Causes severe burns.

SAFETY PHRASES

S24/25 Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where

ossible).

S60 This material and its container must be disposed of as hazardous waste.

16 OTHER INFORMATION

REVISION DATE 20/09/07

REV. NO./REPL. SDS GENERATED 1

SDS NO. 2007/10848

RISK PHRASES IN FULL

R34 Causes burns.

R35 Causes severe burns.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such