

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

1.1. Product Identifier

Product Name: WILLOWCHEM 60

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

Use of substance / mixture: Commercial cleaning of metal surfaces, particularly Stainless Steel

1.3. Details of the supplier of the Safety Data Sheet

Company Name: Willowchem Technology (Ireland) Limited
Ballyroe
Ballyhea
Charleville
Co. Cork

Telephone:- 063 - 30874

Fax:- 063 - 21262

Email:- sales@willowchem.ie

1.4. Emergency Telephone No.

Emergency Tel: 063 - 30874 / 087 - 2325831

Section 2: Hazards identification

2.1. Classification of the substance / mixture

Classification under CHIP: C: R34

Classification under CLP: Met. Corr. 1: H290; Skin Corr. 1B: H314

Most important adverse effects: Causes burns.

2.2. Label Elements

Label elements under CLP:

Hazard Statements: H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage

Signal Word:- Danger

Hazard Pictograms: GHS05: Corrosion



Precautionary Statement: P234: Keep only in original containers

P406: Store in corrosion resistant container with resistant inner liner

P264: Wash all affected areas thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

[cont.....]

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321: Specific treatment (see instructions on label)

Label elements under CHIP:

Hazard Symbols: Corrosive



Risk Phrases: R34: Causes burns

Safety Phrases: S26: 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 the label where possible).

2.3. Other Hazards

PBT: This substance is not identified as a PBT substance

Section 3: Composition/information on ingredients

3.1. Mixtures

Hazardous Ingredients

ORTHOPHOSPHERIC ACID

EINECS	CAS	CHIP Classification	CLP Classification	Percent
231-633-2	7664-38-2	C: R34	Skin Corr. 1B: H314	10 - 30%

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. Ensure the water bathes the eye by gently prising open the eyelids and keeping them apart until the treatment is completed. Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. Give 1 cup of water of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. if unconscious and breathing is okay, please in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If

unconscious and breathing is okay, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

Skin Contact: Irritation or pain may occur at the site of contact. Blistering may occur. Severe burns may occur.

Eye Contact: There may be irritation and redness. The eyes may water profusely. Corneal burns may occur.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness.

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

Immediate/Special Treatment: No specific measures other than those given above.

Section 5: Fire Fighting measures

5.1. Extinguishing Media

Extinguishing Media: Carbon Dioxide. Alcohol or polymer foam. Dry chemical powder

5.2. Special Hazards arising from the substance or mixture

Exposure Hazards: Corrosive. In combustion emits toxic fumes

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: Mark out the containment area with signs and prevent access to unauthorised personnel. Refer to section 8 of SDS for personal protection details.

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: Neutralise the spill with soda ash. For a small spill, run neutralised material to waste, diluting greatly with water. For a larger spill, collect neutralised material into suitable containers. Arrange disposal of containers by a registered waste contractor.

6.4. Reference to other sections

Section 7: Handling and Storage

7.1. Precautions for safe handling

Handling Requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. We recommend the use of PVC gloves tested in accordance with EN374 for chemical resistance (permeation and/or penetration) and EN388 for resistance to abrasion, permeation, tearing and cutting.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions: Store in cool, well ventilated area. Keep container tightly closed. Recommended Storage Temperature: +5 to +30 degC.

Suitable packaging: Polyethylene.

7.3. Specific end use(s)

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	1 mg.m-3(H3PO4)	2 mg.m-3(H3PO4)	-	-

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/m3	2 mg/m3	-	-

8.2. Exposure Controls

Engineering Measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Depending on other control measures in place and the level of exposure then under normal working conditions respiratory protection should not be required.

Hand protection: Protective gloves.

Eye Protection: Safety goggles. Face-shield. Ensure eye bath is to hand.

Skin protection: Boots made of PVC. PVC apron covering tops of the boots. Ensure safety shower is to hand.

Environmental: Prevent from entering public sewers or the immediate environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid
Colour: Green
Odour: Characteristic odour
Solubility in water: Soluble
Viscosity: Viscous
Relative density: 1.200 **pH:** <3

9.2. Other Information

Other information: Not applicable

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.

10.5. Incompatible materials

Materials to avoid: Alkalis.

10.6. Hazardous decomposition products

Haz. Decomp. Products: In combustion emits toxic fumes.

Section 11: Toxicology information

11.1. Information on toxicological effects

Relevant effects for mixture:

Effect	Route	Basis
Corrosivity	OPT INH DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin Contact: Irritation or pain may occur at the site of contact. Blistering may occur. Severe burns may occur.

Eye Contact: There may be irritation and redness. The eyes may water profusely. Corneal burns may occur.

Ingestion: There may be soreness and redness of the mouth and throat. There may be

difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be a loss of consciousness.

Section 12: Ecological Information

12.1. Toxicity

Ecotoxicity values: Not applicable

12.2. Persistence and degradability

Persistence and degradability: No data available

12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation potential.

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT Identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Harmful to aquatic organisms.

Section 13: Disposal considerations

13.1. Waster treatment methods

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

Recovery Operations: Not applicable.

Waste code number: 11 01 06

Disposal of Packaging: Arrange for collection by specialised disposal company.

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: UN1760

14.2. UN proper shipping name

Shipping Name: CORROSIVE LIQUID, N.O.S.
(ORTHOPHOSPHORIC ACID)

14.3. Transport hazard class(es)

Transport Class: 8

14.4. Packaging Group

Packaging Group: II

14.5. Environmental Hazards

Environmentally Hazardous: No

Marine Pollutant: No

14.6. Special precautions for user

Tunnel Code: E
Transport Category: 2
IMDG seg. Group: B

Section 15: Regulatory Information

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

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: We wish to point out this MSDS refers to the product and not to it's dilutions, when the associated risks may be reduced.
Before any product is used the label should be read and current information consulted. MSDS Ref:- WILLOWCHEM 60.

Phrases used in s.2 & 3: H290: May be corrosive to metals.
H314: causes sever skin burns and eye damage.
R34: Causes 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.