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

1.1. Product identifier <u>Trade name</u> ACID ETCH SOLUTION

> <u>UFI code</u> YH30-M0Q0-E00E-X32S

<u>Contains</u>

phosphoric acid

1.2. Relevant identified uses of the substance or mixture and uses advised against <u>Product type</u>

Paints and varnishes

<u>Relevant identified uses</u> One-pack performance coatings

<u>Not suitable for use in</u> Any other Purpose

1.3. Details of the supplier of the safety data sheet Manufacturer

Castle Paints Ltd

Address Cloncollig Ind Estate R35X993 Tullamore Ireland

Telephone 0579351583

Email info@castlepaints.ie

<u>Email</u> info@castlepaints.ie

1.4. Emergency telephone number

Poison center/Additional emergency number +353 1 809 2566 - National Poisons Information Centre

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Skin corrosion, hazard category 1B Serious eye damage, hazard category 1

Hazard statements

H314, H318

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



<u>Signal word</u> Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to in accordance with local regulation.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P370 + P378 In case of fire: Use water-spray, foam, dry-powder or carbon dioxide to extinguish. P260 Do not breathe dust/fumes/gas/mist/vapours/spray..

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

2.3. Other hazards

No data available

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
phosphoric acid	7664-38-2 231-633-2 01-2119485924-24 015-011-00-6	≥2.5 - <25%	Met. Corr. 1, Acute Tox. 4 - oral, Skin Corr. 1B, Eye Dam. 1	H290, H302, H314, H318 - -	-

SECTION 4: First aid measures

4.1. Description of first aid measures

GENERAL INFORMATION; Provide General first aid, rest and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless of how minor they seem. First aid personnel must be aware of own risk during rescue.

Inhalation

INHALATION; Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort or breathing difficulties develop.

Skin contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. SKIN CONTACT; Remove affected person from source of contamination. Remove contaminated clothing and shoes and wash before reuse. Wash exposed area with soap and water. Get medical attention if irritation develops.

Eye contact

EYE CONTACT; Avoid Contamination of unaffected eye. Remove contact lenses if present and easy to do so. Hold eye lids open. Rinse with a gentle stream of water for at least 15 minutes. Seek medical attention.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. INGESTION; If this product is ingested, remove victim immediately from source of exposure. Provide fresh air, warmth and rest preferably in comfortable upright sitting position. Never give anything by mouth to an unconscious person. Rinse mouth out and drink plenty of water. Do not induce vomiting. Seek medical advise (provide label where possible)

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

The severity of the symptoms described will vary dependant on the concentration and the length of exposure. Causes damage to organs through prolonged or repeated exposure.

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Inhalation

Inhalation of high concentrations of vapours may cause drowsiness and dizziness. There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. May cause damage to organs through prolonged or repeated exposure to inhalation.

Skin contact

Contact with skin may cause irritation. There may be irritation and redness at the site of contact. May cause an allergic skin reaction.

Eye contact

Causes serious eye irritation, May cause redness, swelling, pain and tearing.

Ingestion

May cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Aspiration of the swallowed or vomited production can cause severe pulmonary complications.

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

IF exposed or concerned, get medical advice. Treat Symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

<u>Suitable extinguishing media</u> alcohol resistant foam Carbon dioxide Extinguishing powder Water mist

Unsuitable extinguishing media

High Volume Water Jet

5.2. Special hazards arising from the substance or mixture

Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment. Therefore keep away from fire and sources of ignition. Do not allow run-off from fire-fighting to enter drains or water courses. May Produce Hazardous combustion products such as carbon monoxide, carbon dioxide and unknown hydrocarbons.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Avoid breathing fire vapours. Keep upwind to avoid fumes. Fight advanced or massive fires from a safe distance or protected location. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so.

Other

Fire-Fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN469 will provide a basic level of protection for chemical incidents.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in section 8 of this safety data sheet. Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection. Eliminate all sources of ignition. Keep unnecessary and unprotected personnel from entering. Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2. Environmental precautions

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Protection Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Wear appropriate personal protective equipment as specified in section 8. Ventilate and evacuate the area. Eliminate all ignition sources. Stop leak if possible without risk. Cover drains. Absorb spillage with non-combustible absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitable labelled container. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Section 13: Disposal Considerations (non-mandatory) Section 8: Exposure Controls/Personal Protection

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Ground/bond container and receiving equipment. Use explosion-proof equipment. Use non-sparking tools. Take precautionary measures against static discharge. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

General hygiene

Avoid contact with skin, eyes and clothes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Section 8: Exposure Controls/Personal Protection Hygiene Measures: Wash hands and/or face before breaks and at the end of shift. Do not eat, drink or smoke while using this product. Avoid contact with skin, eyes and clothing. Routinely wash/clean all work clothing and personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Always close containers tightly after the removal of product. Store in a well-ventilated place. Keep cool. Take care when re-opening already used containers.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2. Use only in accordance with these directions, Keep container tightly closed and sealed when not in use.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Personal Protective Equipment Symbols



Eye / face protection

Use safety glasses to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166 (EU). For professional users: Tightly fitting safety goggles or face-shield may be required for applications producing spray or mist.

Hand protection

Selection of glove material depends on consideration of the penetration times, rates of diffusion and degradation and concentration specific to the workplace. Where hand contact with the product may occur use gloves approved to relevant standards (e.g. Europe: EN374). Gloves must be inspected prior to use. Suggested material: Neoprene /PVA >8 hours (breakthrough time). Consult manufacturer for specific medical advise on material. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique (without touching the gloves outer surface) to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Change gloves regularly.

Other skin protection

Wear appropriate clothing to prevent any possibility of skin contact. For professional users: Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. The selected clothing must satisfy the European norm standard EN943.

Respiratory protection

Use in a well ventilated area. For professional users; where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143, and suitable respirator cartridges as a back up to engineering controls. Suggested filter type: ABEK (EN 14387). Consult manufacturer for specific advise. Where aerosols are in use, use self contained breathing apparatus with a type AX filter or appropriate combined filter (e.g. AX-P3), in compliance with EN 371. Other applications use filter type A/P (EN141). If the respirator is the sole means of protection, use a supplied air self contained breathing apparatus operated in positive pressure mode. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). Use respiratory protection as specified by an industrial hygienist of other qualified professional. Change filters frequently.

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Other

Hygiene Measures: Wash hands and/or face before breaks and at the end of shift. Do not eat, drink or smoke while using this product. Avoid contact with skin, eyes and clothing. Routinely wash/clean all work clothing and personal protective equipment. Process Conditions: Use only according to directions. Ensure that eye flushing systems and safety showers are located close-by in the work place.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

<u>Colour</u> Clear

<u>Odour</u> Hydrocarbons, aromatic

Odour threshold

No information available as testing has not been completed.

Melting point / freezing point

No information available as testing has not been completed.

Boiling point or initial boiling point and boiling range

35°C

Flammability

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Lower and upper explosion limit

not explosive according to EU A.14

Flash point

> 60 °C

Auto-ignition temperature

No information available as testing has not been completed.

Decomposition temperature

No information available as testing has not been completed.

<u>рН</u>

No information available as testing has not been completed.

Kinematic viscosity

No data available

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Solubility

Immiscible

Partition coefficient n-octanol/water

No information available as testing has not been completed.

Vapour pressure

No data available

Density and/or relative density 1.09g/cm3

Relative vapour density

No data available

Particle characteristics

No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with: Strong Oxidising substances and acids. Reaction with: Alkaline substances. Reaction with Oxidisers. Reacts violently with sodium tetrahydroborate. Forms an explosive mixture with nitromethane. Reacts with cyanide compounds to release gaseous hydrogen cyanide. May generate flammable/toxic gases in contact with mercaptans, dithiocarbamates, isocyanates, nitriles, nitrides, sulfides, or strong reducing agents. May react with active metals, such as aluminum and iron, to release flammable hydrogen gas. In the presence of chlorides can corrode stainless steel to form explosive hydrogen gas. Emits toxic and irritating fumes of oxides of phosphorus when heated to decomposition.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Gives off hydrogen by reaction with metals. Risk of explosion.

10.4. Conditions to avoid

Take precautionary measures against static discharge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from incompatibles such as oxidizing agents, acids, alkalis. Do not mix with other chemicals unless listed on directions. In contact with reactive metals (steel, carbon & aluminum), product may produce flammable hydrogen gas. Avoid contact with: Azo compounds. Epoxides. Sodium tetrahydroborate. Nitromethane. Cyanide compounds. Mercaptans. Dithiocarbamates. Isocyanates. Nitriles. Sulfides.

10.5. Incompatible materials

Strong acid Oxidizing agent Reducing agent

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10.6. Hazardous decomposition products

in combustion emits toxic fumes. Combustion products may include but are not limited to; oxides of carbon, unburned hydrocarbons. Irritating, hazardous and toxic fumes and gases. Oxides of carbon, oxides of phosphorus. Converted to pyrophosphoric acid (H4P2O7) when heated to 213 °C.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No Toxicological information for the overall finished product. Not classified based on available information.

Skin corrosion/irritation

No information available as testing has not been completed.

Serious eye damage/irritation

Causes serious eye irritation, May cause redness, swelling, pain and tearing.

Respiratory or skin sensitisation

Contact with skin may cause irritation. There may be irritation and redness at the site of contact. May cause an allergic skin reaction.

Germ cell mutagenicity

This product is not classified as a mutagen.

Carcinogenicity

This product is not classified as a carcinogen hazard.

Repeated dose toxicity

This product is not classified as a carcinogen hazard.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

The product is not classified as a single exposure specific target organ toxin.

STOT-repeated exposure

This product is not classified as a repeat exposure specific target organ toxin.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%

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SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

No information available as testing has not been completed.

<u>Toxicity</u>

No information available as testing has not been completed.

<u>Aquatic</u>

No information available as testing has not been completed.

<u>Soil</u>

No information available as testing has not been completed.

Acute fish toxicity

No information available as testing has not been completed.

Acute algae toxicity

May cause long lasting harmful effects to aquatic life.

Acute crustacean toxicity

No information available as testing has not been completed.

Micro-/macro organism toxicity

No information available as testing has not been completed.

Chronical toxicity

No information available as testing has not been completed.

12.2. Persistence and degradability

Persistence and degradability

No information available as testing has not been completed.

Decay/transformation

No information available as testing has not been completed.

12.3. Bioaccumulative potential

No information available as testing has not been completed.

12.4. Mobility in soil

Mobility

Immiscible

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%

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12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Waste treatment methods Dispose of waste and residues in accordance with local authority requirements and in accordance with all local, national and international regulations. For waste disposal, use a licenced industrial waste disposal agent.

Packaging

Dispose of this material and its container at hazardous or special waste collection point. When handling waste, consideration should be made to the safety precautions applying to handling of the product. Since emptied containers contain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport information

- **14.1. UN number** 1805
- **14.2. UN proper shipping name** <u>ADR / RID / ADN proper shipping name</u> PHOSPHORIC ACID SOLUTION

IMDG proper shipping name PHOSPHORIC ACID SOLUTION

IATA proper shipping name PHOSPHORIC ACID SOLUTION

14.3. Transport hazard class(es) <u>Label</u> PHOSPHORIC ACID SOLUTION

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ADR/RID/ADN



IMDG



ADR / RID Class

8

ADR / RID hazard identification number 80

IMDG Class

•

ADN Class

3

ADN Class Code

F-A

14.4. Packing group

ADR/RID/ADN Packing Group III IMDG Packing Group III IATA Packing Group III

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Hazard group 80 Tunnel Restriction Code - (E) EMS; F-A, S-B Emergency Action Code; A3 A803

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU regulations</u>

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Safety information according to Regulation (EC) No. 1907/2006 (REACH), Article 32

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National regulations

2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Phrase meaning

Skin Corr. 1B - Skin corrosion, hazard category 1B
Eye Dam. 1 - Serious eye damage, hazard category 1
Met. Corr. 1 - Corrosive to metals, hazard category 1
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.