



# SAFETY DATA SHEET

ACIDETCH 12

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Compilation date: 26/9/05

Revision date: 01/05/15

Revision No: 3

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

### 1.1. Product identifier

**Product name:** ACIDETCH 12

**Product code:** A1015

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

**Use of substance / mixture:** A strongly acidic etch system for Aluminium and its alloys.

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

**Company name:** Confederate Chemicals Ltd

Mochdre Industrial Estate

Newtown

Powys

SY16 4LE

**Tel:** 01686 627158

**Fax:** 01686 627580

**Email:** [lab@confederatechemicals.co.uk](mailto:lab@confederatechemicals.co.uk)

### 1.4. Emergency telephone number

**Emergency tel:** 01686 627158

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CHIP:** C: R34; Xn: R20/21/22

**Classification under CLP:** Skin Corr. 1B: H314; Acute Tox. 4: H302+312+332

**Most important adverse effects:** Causes burns. Harmful by inhalation, in contact with skin and if swallowed.

### 2.2. Label elements

**Label elements:**

**Hazard statements:** H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.

H314: Causes severe skin burns and eye damage.

**Signal words:** Danger

**Hazard pictograms:** GHS05: Corrosion

GHS07: Exclamation mark



**Precautionary statements:** P260: Do not breathe fumes.

[cont...]

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P264: Wash thoroughly after handling.

P280: Wear protective clothing.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+350: IF ON SKIN: Gently wash with plenty of soap and water.

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

P363: Wash contaminated clothing before reuse.

## Label elements under CHIP:

**Hazard symbols:** Corrosive.

Harmful.



**Risk phrases:** R34: Causes burns.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

**Safety phrases:** S2: Keep out of the reach of children.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of water.

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 product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

AMMONIUM BIFLUORIDE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
215-676-4	1341-49-7	T: R25; C: R34	Acute Tox. 3: H301; Skin Corr. 1B: H314	1-10%

[cont...]

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## BUTYL GLYCOL

203-905-0	111-76-2	Xn: R20/21/22; Xi: R36/38	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Acute Tox. 4: H312; Acute Tox. 4: H332	1-10%
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## ORTHOPHOSPHORIC ACID

231-633-2	7664-38-2	C: R34	Skin Corr. 1B: H314	30-50%
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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. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, 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.
- 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:** Eye bathing equipment should be available on the premises.

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## 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 contaminated area with signs and prevent access to unauthorised personnel.

### 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:** Transfer to a suitable container. Wash down the drain with large amounts of water.

### 6.4. Reference to other sections

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

## 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.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

[cont...]

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ORTHOPHOSPHORIC ACID...100%

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	-	-

## DNEL/PNEC Values

DNEL / PNEC No data available.

## 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Suitable respiratory protection must be available in case of emergency.

**Hand protection:** Protective gloves.

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

**Skin protection:** Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. Ensure safety shower is to hand.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Colourless

**Solubility in water:** Miscible in all proportions

**Relative density:** 1.24

**pH:** 2.2 (1% solution)

### 9.2. Other information

**Other information:** No data available.

## 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.

Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

### 10.5. Incompatible materials

**Materials to avoid:** Strong bases. Metals.

[cont...]

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## 10.6. Hazardous decomposition products

**Haz. decomp. products:** Decomposes in fire producing toxic oxides of Phosphorus. Hydrogen can form explosive mixtures in air. Most metals will cause formation of flammable and explosive mixture.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Hazardous ingredients:

##### BUTYL GLYCOL

ORL	RAT	LD50	470	mg/kg
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##### ORTHOPHOSPHORIC ACID...100%

ORL	RAT	LD50	1530	mg/kg
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#### Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	INH DRM ING	Hazardous: calculated
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 loss of consciousness.

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

## Section 12: Ecological information

### 12.1. Toxicity

#### Hazardous ingredients:

##### AMMONIUM BIFLUORIDE

FISH	96H LC50	5.9 - 7.5	mg/l
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## 12.2. Persistence and degradability

## 12.3. Bioaccumulative potential

## 12.4. Mobility in soil

**Mobility:** 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:** Contains no substance classified as Dangerous for the Environment in the Chemicals (Hazard Information and Packaging) Regulations 2002, or subsequent amendments.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Dispose of in accordance with local and national regulations.

**Disposal of packaging:** All residues must be removed from packaging prior to disposal as controlled waste.

**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; AMMONIUM BIFLUORIDE)

### 14.3. Transport hazard class(es)

**Transport class:** 8

### 14.4. Packing group

**Packing group:** III

### 14.5. Environmental hazards

**Environmentally hazardous:** No

**Marine pollutant:** No

### 14.6. Special precautions for user

**Special precautions:** No special precautions.

**Tunnel code:** E

**Transport category:** 3

[cont...]

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## 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

**Other information:** Refer to the Manual Handling Operations Regulations 1992.

Store in accordance with HSE Guidance Note CS17.

Read in conjunction with the Technical Data sheet concerning use of the product.

NOTE: Alterations have been made in Section 14 in revision 2.

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

H302: Harmful if swallowed.

H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R25: Toxic if swallowed.

R34: Causes burns.

R36/38: Irritating to eyes and skin.

**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.