



SAFETY DATA SHEET

FEDERCROM PC ACCELERATOR

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Compilation date: 24/08/00

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Revision No: 2

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

1.1. Product identifier

Product name: FEDERCROM PC ACCELERATOR

Product code: A904

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

Use of substance / mixture: Liquid used in the surface treatment of aluminium.

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

1.4. Emergency telephone number

Emergency tel: 01686 627158

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: T+: R26/27/28; C: R35

Classification under CLP: Acute Tox. 1: H300+310; Acute Tox. 3: H331; Skin Corr. 1A: H314

Most important adverse effects: Very toxic by inhalation, in contact with skin and if swallowed. Causes severe burns.

2.2. Label elements

Label elements:

Hazard statements: H300+310: Fatal if swallowed or in contact with skin.

H314: Causes severe skin burns and eye damage.

H331: Toxic if inhaled.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion

GHS06: Skull and crossbones



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Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P262: Do not get in eyes, on skin, or on clothing.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/.
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+350: IF ON SKIN: Gently wash with plenty of soap and water.

Label elements under CHIP:

Hazard symbols: Very toxic.
Corrosive.



Risk phrases: R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.
R35: Causes severe burns.

Safety phrases: 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 soap and water.
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
S38: In case of insufficient ventilation, wear suitable respiratory equipment.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.

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:

HYDROFLUORIC ACID...60%

EINECS	CAS	CHIP Classification	CLP Classification	Percent
231-634-8	7664-39-3	T+: R26/27/28; C: R35	Acute Tox. 2: H330; Acute Tox. 1: H310; Acute Tox. 2: H300; Skin Corr. 1A: H314	10-30%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove contaminated clothing, wash skin thoroughly with water for one minute.
Massage Calcium Gluconate Gel (2.5%) into burnt area repeating application until at least 15 minutes after the pain is relieved. If the burnt area is large (more than 160 cm²)

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give 6 Sanocal (Calcium Gluconate) tablets in water by mouth every 2 hours until admitted to hospital. If Calcium Gluconate Gel is not available continue to wash with water, preferably iced, until Calcium Gluconate Gel is obtained. Obtain medical attention as soon as possible.

Eye contact: Irrigate thoroughly with clean water for at least 15 minutes holding the eyelids apart. Obtain medical attention, preferably an eye specialist, immediately.

Ingestion: If confined to the mouth, give plenty of water as a mouthwash ensuring that it is not swallowed. If swallowed give repeated doses of 6 Sanocal tablets in water. If unavailable give milk or water to drink. Obtain medical attention as soon as possible.

Inhalation: Remove from exposure, apply artificial respiration if breathing has stopped, administer oxygen if respiration difficult. Rest and keep warm. Obtain medical attention immediately.

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

Skin contact: Liquid vapour causes very painful and serious burns. The response to dilute HF acid may be delayed and may not be evident for up to 24 hours after contact.

Eye contact: Liquid or vapour causes severe irritation. Liquid contact can rapidly cause permanent damage.

Ingestion: Causes severe irritation and damage to the mouth, pharynx, oesophagus, stomach and respiratory tract with nausea, vomiting, abdominal pain and collapse.

Inhalation: Very toxic, corrosive and highly irritating, causing breathing difficulties and pulmonary oedema with possible ulceration of the nose and throat.

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: Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Very toxic. Corrosive. Hydrofluoric (HF) Acid is itself not flammable but heat will increase the pressure in storage tanks. They should therefore be kept cool by spraying. HF acid is toxic and corrosive towards some metals and glass. HF acid reacts with some metals evolving Hydrogen, which is flammable. In the event of a mist or vapour cloud forming during a fire all personnel should be evacuated. Those downwind should be instructed to stay indoors and close all windows.

5.3. Advice for fire-fighters

Advice for fire-fighters: Full cover PVC clothing, gloves, boots and a self-contained breathing apparatus.

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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear full PVC chemical suit, gloves and boots and self-contained breathing apparatus.
Avoid contact if possible.

6.2. Environmental precautions

Environmental precautions: Hydrofluoric acid is very toxic and corrosive to concrete and many building materials. If the substance has entered a watercourse or sewer or contaminated soil or vegetation, the appropriate authorities must be informed immediately.

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.

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: Avoid personal contact by wearing a full PVC chemical suit, facemask, gloves and boots.
Eye wash bottles and safety showers must always be available.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool place in original container and protect from direct sunlight. Keep container tightly closed.

Suitable packaging: Do not use glass. Do not use mild steel containers. May be handled in copper if free from Sulphur Dioxide and air. Suitable plastics are polyethylene, polypropylene, PVC and PTFE (PTFE being the preferred plastic for liquid or vapour).

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:

HYDROFLUORIC ACID...60%

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL

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EU	1.8 ppm	3 ppm	-	-
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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: Impermeable gloves.

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

Skin protection: Full PVC chemical suit, boots and hood. Trousers must be outside the boots and sleeves outside the gloves. 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

Odour: Characteristic odour

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Miscible in all proportions

Relative density: 1.04

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 at ambient temperatures in closed containers. Dilution with water is exothermic.

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

Conditions to avoid: Direct sunlight. Heat.

10.5. Incompatible materials

Materials to avoid: Alkalis. Glass. Finely powdered metals. Metallic oxides. Carbonates. Will attack glass, concrete and certain metals especially those containing silica such as cast iron. It also attacks rubber, leather and many organic materials. A strongly corrosive acid whose rate of attack on iron and steel increases with dilution.

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10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

HYDROFLUORIC ACID...60%

IPR	RAT	LDLO	25	mg/kg
SCU	FRG	LDLO	112	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (very toxic)	INH DRM ING	Hazardous: calculated
Corrosivity	OPT INH DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Liquid vapour causes very painful and serious burns. The response to dilute HF acid may be delayed and may not be evident for up to 24 hours after contact.

Eye contact: Liquid or vapour causes severe irritation. Liquid contact can rapidly cause permanent damage.

Ingestion: Causes severe irritation and damage to the mouth, pharynx, oesophagus, stomach and respiratory tract with nausea, vomiting, abdominal pain and collapse.

Inhalation: Very toxic, corrosive and highly irritating, causing breathing difficulties and pulmonary oedema with possible ulceration of the nose and throat.

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

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
DAPHNIA	48H EC50	100%HF:270	mg/l

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

Mobility: Soluble in water.

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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: Very toxic to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Do not discharge concentrated material into sewer.

Recovery operations: Subject to Hazardous Waste Regulations 2005 as amended. Consult a suitably licensed waste disposal company to agree the classification and consent limit before disposal or discharge.

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: UN1790

14.2. UN proper shipping name

Shipping name: HYDROFLUORIC ACID

14.3. Transport hazard class(es)

Transport class: 8 (6.1)

14.4. Packing group

Packing group: II

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: 2

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.

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Section 16: Other information

Other information

Other information: Refer to the Manual Handling Operations Regulations 1992.
Store in accordance with HSE Guidance Note CS17.
Classed as special waste by the Hazardous Waste Regulations 2005.
Read in conjunction with the Technical Data sheet concerning use of the product.

Phrases used in s.2 and s.3: H300: Fatal if swallowed.
H300+310: Fatal if swallowed or in contact with skin.
H310: Fatal in contact with skin.
H314: Causes severe skin burns and eye damage.
H330: Fatal if inhaled.
H331: Toxic if inhaled.
R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.
R35: Causes severe 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.