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TECHNICAL DATA AND SAFETY DATA PACK

IntaChem®
BT200™

Description
Acidic cleaning solution

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Technical Data Sheet Introduction

BT-200 is a cleaner formulated for the removal of dirt, carbon, algae and rust stains from brick work and terracotta.



Technical Data Sheet Product description

BT200 is a blue aqueous liquid. It is corrosive and contains Hydrofluoric acid (UN1790), less than 10 %. When adequately diluted the organic ingredients are completely biodegradable. The formulation has been in use for over 30 years.



Technical Data Sheet How to use the product

Establish the detailed method and contact times by means of a test patch and ascertain if a dilution of BT-200 can be used by means of a test patch trial. Apply the product by means of a fiber bristle brush—working the product into the masonry of the pre-wetted surface, starting at the top and working natural break. A normal contact time of 5-15 minutes is desirable and dilutions of BT-200 where performance is satisfactory. In this respect a degreasing increases the efficiency of the acid and often permits greater dilution of the cleaner. Pressure water jetting, using hot or cold water, should take 3min/sq.m. to remove the surface debris.



Technical Data Sheet General safety precautions

At any time when this product is being transported, or being used, persons handling or carrying the product should have available a 25 litre drum of clean water for use in emergencies and HYDROFLOURIC ACID ANTIDOTE GEL for immediate treatment of



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accidental splashes or burns. Containers should be stored in a safe place with caps secured, and a trained responsible person detailed for security in depots, in transit and on site. Spillages must be dealt with immediately. Only competent persons should handle the product



Technical Data Sheet
Materials to be avoided

Glass, polished granite, glazed aluminum, zinc, bronze, brass, copper, and lead. The verification of any colouration changes should be observed during test trial work. Alternatively, a LONG CONTACT METHOD can be used. This product is NOT suitable for use on limestone, Portland Stone, Bath stone, marble, slate or calcited materials.



Technical Data Sheet
Test patch trial



Technical Data Sheet
Protection of operative

Chemical protective suits are needed along with PVC gauntlets, face shields, head cover and suitable footwear. A bucket of clean water for emergencies should be to hand. Nobody must be allowed to pass underneath or work under cleaning area. Spillages must be washed down immediately. At the end of the work period wash down all equipment (e.g. scaffolding and boards). A HYDROFLOURIC BURNS KIT should be at hand for the treatment of any acid burns. Only experienced operatives should handle this product (see HYDROFLOURIC ACID TREATMENT SHEET).



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Technical Data Sheet
First aid advice

See HYDROFLUORIC ACID TREATMENT SHEET and Safety Data Sheet for this product.



Technical Data Sheet
Ecology

When diluted the organic ingredients are biodegradable. Effluent, if washed into soil will break down rapidly. If the product is advertently sprayed onto plants/vegetation it should be rinsed off. Rinsing with water will prevent further damage to vegetation. Plastic sheeting could be used to protect such plant life.

Using the correct jetting technique maximise dilution of the chemical is achieved and no damage has been found to fish when such debris enters rivers and streams (contractors are directed to advise the authorities before disposal and immediately in the event that an accidental disposal into a water course takes place).



Technical Data Sheet
Operative Competency

On the general subject of competency, we further signpost enquirers to the Health & Safety Executive's website. Once on the website search on the keyword **competence**. At time of publication the HSE described *Competence* as:

"Competence can be described as **the combination of training, skills, experience and knowledge that a person has and their ability to apply them to perform a task safely**. Other factors, such as attitude and physical ability, can also affect someone's competence. As an employer, you should take account of the competence of relevant employees when you are conducting your risk assessment. This will help you decide what level of information, instruction, training, and supervision you need to provide."

Largely the UK construction industry uses a skills card scheme called Construction Skills Certification Scheme or CSCS. Those using this product would most likely show on the reverse side of their CSCS card the occupation: Façade Cleaner or if they do not hold a CSCS they are likely to hold an NVQ level 2 in Façade Preservation or a Level 3 NVQ in Heritage Façade Preservation. Supervisors may hold a Level 3 NVQ in Occupational Work Supervision Construction with an awarding body endorsement letter for Façade Preservation. Managers may hold a Level 6 NVQ in Construction Site Management Conservation.



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Safety Notes:

1. Always store containers in secure conditions.
2. Keep containers closed when not in use.
3. COSHH Data: Contains Hydrofluoric Acid (less than 10%) UN1790. Splashes to the skin may cause serious burns.
4. Hazard Classification: Corrosive
5. Physical data: A pink aqueous liquid containing chemicals to prevent iron stain migration
6. Solubility: Totally soluble in water
7. SG: 1.1205—1.1455
8. pH Value: Less than 1
9. Flammability: Non-Flammable
10. Fume Hazards: In confined spaces fumes may build up, TLV 8 hours 3ppm (HF) No fume hazards have been encountered using this product behind sheeted scaffolding.
11. Other dangers: This product must not be allowed to mix with algae remover as dangerous fumes will be given off.
12. Handling precautions: Full body, hands, feet and face protection must be worn. A container of clean water, for emergency use, should be on hand. Operatives must have HYDROGEN FLOURIDE BURN ANTIDOTE GEL on hand.
13. NEVER leave containers full or empty where the public may come into contact with them.
14. ALWAYS fill containers with water before disposing of them.

Important Notice:

The statements above are compiled from our field of production and according to the latest technological developments and application techniques received by us. Since application and working are beyond our control, no liability of the producer (or its agents) can be derived from contents of the information sheet or additional correspondence. All statements made in addition to this sheet must be confirmed in writing by the producer (or its agents). In all cases our general conditions of sale are valid. This data sheet was published 10/10/2005 and supersedes any previous edition.



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Safety Data Sheet according to 1907/2006/EC Article 31

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



1.1. Product Identifier

Product name:

BT200

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

Description:

Product Use [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU19] Building and construction work; [PC0] Other; [PROC11] Non industrial spraying; [ERC8b] Wide dispersive indoor use of reactive substances in open systems [ERC8e] Wide dispersive outdoor use of reactive substances in open systems; Acidic Cleaning Solution.

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

Company:

IntaChem® Solution Technology
a trading name of
Priestman Associates LLP

Address:

1 Irwin Drive, Nottingham, UK NG6 7BJ

Website:

www.intachem-solutions.com

Telephone:

0115 975 1880

Email:

info@intachem-solutions.com

Email of a competent person:

david@priestmanweb.com

1.4. Emergency

telephone number:

07943 641586 (Mon-Fri 9am-5pm)



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Section 2: Hazard Identification

2.1. Classification of the substance or mixture

Classification under CHIP:

T+: R27; T: R23/25; C: R35

Classification under CLP:

Acute. Tox, 1: H310
Acute. Tox, 3: H301; H331
Skin Corr. 1A: H314

2.2. Label elements

Label elements under CLP (1272/2008):

Hazard statements:

H310: Fatal in contact with skin
H301: Toxic if swallowed
H331: Toxic if inhaled
H314: Causes severe skin burns and eye damage

Signal words:

Danger

Hazard pictogram:

GHS06: Toxic
GHS05: Corrosion

Precautionary statements:

P201: Obtain special instructions before use

P202: Do not handle until all safety precautions have been read and understood

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash hands thoroughly after handling.

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

P284 Wear respiratory protection.

P301 + P303 + P305 + P310 IF SWALLOWED, IF ON SKIN (or hair), IF IN EYES: Immediately call a POISON CENTER or doctor/physician.





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

P302 + P350 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

P403+233: Store in a well-ventilated place. Keep container tightly closed

P234: Keep only in original container.

P390: Absorb spillage to prevent material damage

P501: Dispose of contents/container to hazardous waste

Label elements under CHIP (1999/45/EC):

Hazard symbols:

Risk phrases:

Safety phrases:

[see end column]

R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed

R35: Causes severe burns

S53: Avoid exposure - obtain special instructions before use

S36: Wear suitable protective clothing

S45: In case of accel where possible)

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

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

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





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S23: Do not breathe gas/fumes/vapour/spray

S63: In case of accident by inhalation: remove casualty to fresh air and keep at rest

S3/9/49: Keep only in the original container in a cool, well-ventilated place

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

2.3. **Other hazards:**
PBT:

This product is not identified as a PBT substance.

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Section 3: Composition information on ingredients



3.2. Mixtures EC 67/548/EEC / 1999/45/EC

Chemical name	CAS No.	EC No.	REACH Reg. No.	Conc. (%w/w)	Classification
Hydrofluoric Acid	7664-39-3			1 – 10 %	T+: R26/27/28; C: R35 Acute. Tox, 1: H310; Acute. Tox, 2: H300; Acute. Tox, 2: H330; Skin Corr. 1A: H314
Phosphoric Acid	7664-38-2			10 – 20 %	C: R34 Skin Corr. 1B: H314

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Section 4: First Aid Measures



4.1. Description of first aid measures

Description of first aid measures General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Hydrofluoric (HF) acid burns require immediate and specialized first aid and medical treatment. Symptoms may be delayed up to 24 hours depending on the concentration of HF. After decontamination with water, further damage can occur due to penetration/absorption of the fluoride ion. Treatment should be directed toward binding the fluoride ion as well as the effects of exposure. Skin exposures can be treated with a 2.5% calcium gluconate gel repeated until burning ceases. More serious skin
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	exposures may require subcutaneous calcium gluconate except for digital areas unless the physician is experienced in this technique, due to the potential for tissue injury from increased pressure. Absorption can readily occur through the subungual areas and should be considered when undergoing decontamination. Prevention of absorption of the fluoride ion in cases of ingestion can be obtained by giving milk, chewable calcium carbonate tablets or Milk of Magnesia to conscious victims. Conditions such as hypocalcemia, hypomagnesemia and cardiac arrhythmias should be monitored for since they can occur after exposure.
Inhalation:	Move the exposed person to fresh air. If not breathing, give artificial respiration.
Eye contact:	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact:	Wash off immediately with plenty of soap and water. Remove contaminated clothing.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth with water.

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

Inhalation:	Risk of producing lung oedema.
Eye contact:	Causes severe burns to eyes. The eyes may water profusely. There may be severe pain. The vision may become blurred. There may be permanent damage.
Skin contact:	Painful burns (effects may not be immediate).
Ingestion:	Corrosive to mucous membranes.

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

Inhalation:	Seek immediate medical attention. (show the label where possible).
Eye contact:	Seek immediate medical attention. (show the label where possible).
Skin contact:	Seek immediate medical attention. (show the label where possible).
Ingestion:	Seek immediate medical attention. (show the label where possible).

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Section 5: Firefighting Measures

5.1. Extinguishing media:	Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards arising from substance or mixture:	Burning produces irritating, toxic and obnoxious fumes.
5.3. Advice for fire fighters:	Wear self-contained breathing apparatus and protective clothing.
5.4. Further information	Avoid using strong water jets.



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Section 6: Accidental Release Measures



6.1. Personal precautions, protective equipment, and emergency procedures:	Avoid contact with the eyes and skin. Wear suitable protective equipment. Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
6.2. Environmental precautions:	Prevent further spillage if safe. Do not allow product to enter drains or any water course. Advise local authorities if large spills cannot be contained.
6.3. Methods and material for containment and cleaning up:	Absorb with inert, absorbent material and dispose of as hazardous waste. transfer to suitable, labelled containers for disposal.
6.4. Reference to other sections:	See section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION for further information. See section 13. DISPOSAL CONSIDERATIONS for further information.

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Section 7: Handling and Storage



7.1. Precautions for safe handling:	Ensure adequate ventilation of the working area. Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing.
7.2. Conditions for safe storage, including any incompatibilities:	Keep containers tightly closed. Keep in a cool, dry, well-ventilated area. Store in correctly labelled containers.
7.3. Specific end use(s):	See section 1.2. Relevant identified uses of the substance or mixture and uses advised against for further information.



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Section 8: Exposure Controls/Personal Protection

8.1. Control parameters:

Components	CAS-No.	8 hour TWA	15 min. STEL	Basis
Hydrofluoric Acid	7664-39-3	1.5 mg/m ³	2.5 mg/m ³	UK EH40 WEL
Phosphoric Acid	7664-38-2	1 mg/m ³	2 mg/m ³	UK EH40 WEL

8.2. Exposure controls

8.2.1 Appropriate engineering controls:

Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product

8.2.2 Individual protection measures:

Do not breathe dust/fume/gas/mist/vapour/spray.
Wear suitable respiratory equipment when necessary.

Chemical resistant gloves.
Material: Chloroprene.
Minimum layer thickness: 0.6 mm
Break through time: > 480 min

Tightly fitting safety goggles. Avoid contact with eyes.

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Avoid contact with eyes and skin.

Immediately remove all soiled and contaminated clothing.
Wash all contaminated clothing before reuse.

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Section 9: Physical and Chemical Properties

9.1.0. Information on basic physical and chemical properties

Appearance:	Liquid	Explosion limits:	Not determined.
Colour:	Blue	Vapor pressure:	Not determined.
Odor:	Not determined.	Density at 20 °C	1.200 g/cm ³
Odor threshold:	Not determined.	Relative density:	Not determined.
pH-value at 20 °C	< 1.0	Vapor density:	Not determined.
Melting point:	Not determined.	Evaporation rate:	Not determined.



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Boiling point:	Not determined.	Solubility in / Miscibility:	Soluble.
Flash point:	Not determined.	Oxidizing properties:	Not determined.
Flammability (solid, gaseous):	Not applicable.	Partition coefficient (n-octanol/water):	Not determined.
Auto-ignition temperature:	Not determined.		
Decomposition temperature:	Not determined.		
Self-igniting:	Not determined.	Dynamic at 20 °C	Not determined.
Danger of explosion:	Product does not present an explosion hazard.	Kinematic:	Not determined.

9.2. Other information

Conductivity:

No data available

Surface tension:

No data available

Gas group:

No data available

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Section 10: Stability and Reactivity

10.1 Reactivity:	Not determined.
10.2 Chemical stability:	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	Reacts with metal to form Hydrogen.
10.4 Conditions to avoid:	Heat. Flames. Sources of ignition. Direct sunlight.
10.5 Incompatible material:	Strong bases. Strong oxidizing agents.
10.6 Hazardous decomposition products:	In combustion emits toxic fumes.



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Section 11: Toxicological Information

11.1 Information on toxicological effects

11.2 Skin corrosion/irritation:

Painful burns (effects may not be immediate).

11.3 Serious eye damage/irritation:

Causes severe burns to eyes. The eyes may water profusely. There may be severe pain. The vision may become blurred. There may be permanent damage.

11.4 Acute toxicity:

Ingestion:

Toxic if swallowed
Fatal in contact with skin
Toxic if inhaled
Causes severe skin burns and eye damage
Corrosive to mucous membranes.

Inhalation:

Risk of producing lung oedema.

Delayed / immediate effects:

Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia, Material can cause severe burns and blistering which may not be immediately painful or visible. The full extent of tissue damage may not exhibit itself for 12-24 hours after exposure., Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., necrosis of the skin

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Section 12: Ecological Information

12.1 Toxicity:

Not determined.

12.2 Persistence and degradability:

Biodegradable

12.3 Bio accumulative potential:

Degraded. Will disperse as ions.

Partition coefficient:

12.4 Mobility in soil:

Soluble, will disperse and degrade.



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12.5 **Results of PBT and yPyB assessment:**

Not applicable.

12.6 **Other adverse effects:**

Not expected to be persistent in the environment

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Section 13: Disposal Considerations

13.1 **Waste treatment methods:**

Do not allow product to enter drains.
Transfer to a suitable container and arrange for collection by specialised disposal company.



Arrange for collection by specialised disposal company.
Disposal must be made according to official regulations.

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Section 14: Transport Information

14.1 **UN number:**
14.2 **UN proper shipping name:**
14.3 **Transport hazard class(es)**
14.4 **Packing group:**
14.5 **Environmental hazards**
14.6 **Special precautions for user:**
14.7 **Transport in bulk according to Annex II of MARPOOL 73/78 and the IBC Code:**

UN 2922
CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrofluoric Acid, Phosphoric Acid)
8 (6.1)  
II
No Marine pollutant: No
E
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Section 15: Regulatory Information

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, Amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

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

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

15.2 Chemical safety assessment:

No data is available on this product.

Safety Data Sheet according to 1907/2006/EC Article 31



Section 16: Other Information

Other information
Revision:

This document differs from the previous version in the following areas:
1 - Description.
1 - Product Use.
2 - 2.1. Classification of the substance or mixture.
2 - 2.1.2. Classification - EC 1272/2008.
2 - Hazard pictograms.
2 - Signal Word.
12 - 12.1. Toxicity.
15 - Labelling.
15 - Risk phrases.
15 - Safety phrases.

Text of risk phrases in
Section 2

R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.



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Text of hazard statements in Section 3:

R35	Causes severe burns.
Full text of classifications [DSD/DPD]	
Skin Corr. 1B: H314	Causes severe skin burns and eye damage.
Acute Tox. 2: H300	Fatal if swallowed.
Acute Tox. 1: H310	Fatal in contact with skin.
Skin Corr. 1A: H314	Causes severe skin burns and eye damage.
Acute Tox. 2: H330	Fatal if inhaled.

Further information:

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy

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 other process.

END



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SAFETY TREATMENT SHEET FOR HYDROFLOURIC ACID BURNS



Skin Burns

SAFETY TREATMENT SHEET FOR HYDROFLOURIC ACID BURNS

Skin Burns - First Aid

- 1.1 Immediately wash the burnt area with copious amounts of water for at least 1 minute.
- 1.2 Apply CALCIUM GLUCONATE GEL on and around the burn and massage it in using clean hands (in the event this gel is not immediately available, continuing rinsing with water until it is applied).
- 1.3 Continue to massage in the gel, using repeated applications until 15 minutes after the pain in the burn has subsided, or until medical treatment is available.

SAFETY TREATMENT SHEET FOR HYDROFLOURIC ACID BURNS

Skin Burns – Medical Treatment

- 2.1 Continue inunction with repeated applications of the calcium gluconate gel until 15 minutes after the pain has completely subsided. This may require several hours but so long as improvement in the lesion and symptoms is occurring, massaging with the gel should be continued. In cases where a thick necrotic coagulum has formed, it may act as a barrier and prevent the penetration of the gel. This will be indicated by lack of



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	improvement. In these cases, the necrotic tissue should be exercised and the gel massaged into the base of the burn taking the usual aseptic precautions.
2.2	If the burn fails to respond to the calcium gluconate gel, injection of a sterile 10% solution of calcium gluconate (sandoz) into and under the burn should be considered. Relief of the pain is an indication that sufficient solution has been injected. Because of this, an anaesthetic should not be given except in the situation where the skin is tightly adherent to the underlying tissues for instance, the finger pads or in subungual finger and toe burns when slitting or removal of the affected nails may be required. In these cases, a general anaesthetic should be given as local anaesthetic is contra-indicated.
2.3	Subsequent magnesium oxide paste dressings are not indicated but if dressings appear to be required, use the gel for 24 hours.
2.4	After the gel or injection treatment has relieved the pain, it may recur later, especially in the case of burns from diluted acid. The patient should be advised to return for further treatment if the pain recurs.
2.5	Treat symptomatically.

SAFETY TREATMENT SHEET FOR HYDROFLOURIC ACID BURNS
Skin Burns - General

3.1	In large area skin burns, systematic administration of calcium and/or magnesium may be necessary. Six effervescent calcium tablets (sandocal tablets; Sandoz each containing 400mg calcium and 20mg ascorbic acid) should be given in water by mouth every two hours until admitted to hospital. The hospital should be reminded that serum calcium and/or magnesium may have to be replaced intravenously if indicated either by clinical signs e.g. carpopedal spasm, or by electro-lyte monitoring (which should be done frequently) and if calcium gluconate is to be given intravenously it should be administered slowly.
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Eye Splashes

SAFETY TREATMENT SHEET FOR HYDROFLOURIC ACID BURNS

Eye Splashes – First Aid

- 1.1 Irrigate with isotonic saline or water for at least 10 minutes.
- 1.2 Obtain medical treatment.

SAFETY TREATMENT SHEET FOR HYDROFLOURIC ACID BURNS

Eye Splashes – Medical Treatment

- 2.1 Continue irrigation with isotonic saline or water, until the severe pain of the burn is relieved.
- 2.2 Instil several drops of sterile calcium gluconate 10% solution (sandoz)
- 2.3 Treat symptomatically.



Spillages and disposal

SAFETY TREATMENT SHEET FOR HYDROFLOURIC ACID BURNS

Spillages:

Dilute with plenty of water or cover with soil/sand and dispose of the debris in an approved manner.

SAFETY TREATMENT SHEET FOR HYDROFLOURIC ACID BURNS

Disposal:

Ensure adequate dilution before discharge to drains.



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