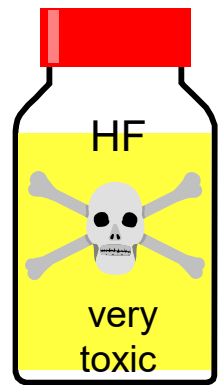
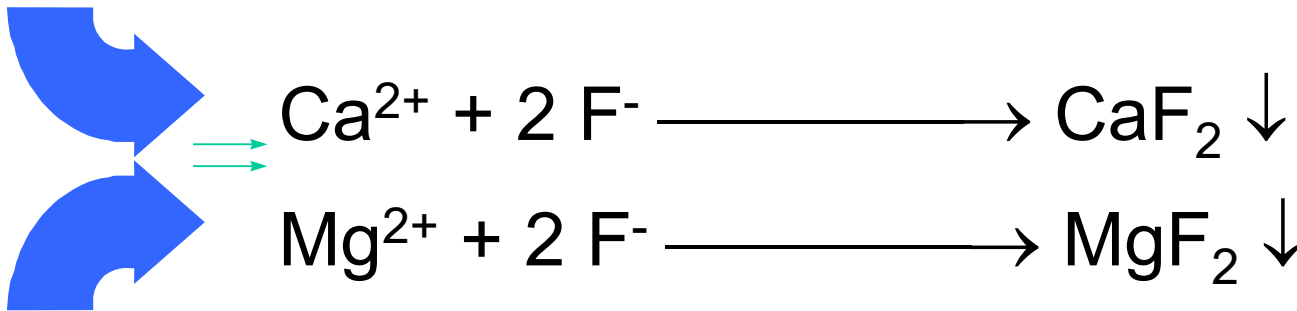


Hazards

Hydrofluoric acid (HF) **interferes forcefully and immediately** with the whole metabolism of the human body and the functions of liver and kidney.

Massive effect on skin **leads to death** through binding to Calcium- and Magnesium ions and by inhibiting essential enzymes:



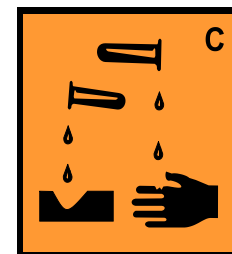
Impacts

Hydrogen fluoride, aqueous hydrofluoric acid, and acidic solid fluorides:

- **burn** human tissue locally,
- **penetrate** the skin rapidly and
- **destroy** deeper tissue irreversibly



very
toxic



corrosive

Chronic uptake **effects bones irreversibly.**

Danger especially for eyes, mucous membranes and lungs.

- Reddening of skin and **pain** is **already caused by concentrations < 5%.**
- **Pain** may not appear immediately but **many hours after contact.**

Skin contact with hydrofluoric acid



Contact
with
25-50%
HF on the
forearm.

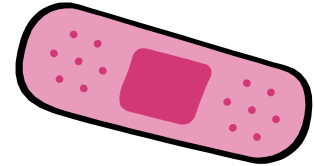
Burns with concentrated hydrofluoric acid being **more extensive than the palm** may have a **dramatic development**.

Literature: Sichere Chemiearbeit / Juni 2000.

First Aid Treatment for HF Burns

CASUALTY

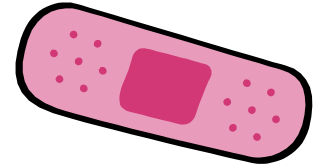
- 1 Summons for help
- 2 Carefully remove contaminated clothing
- 3 Flush with water for 1 minute ONLY
- 4 **IMMEDIATELY** Apply Calcium Gluconate Gel Liberally, AND CONTINUE TO APPLY REGULARLY (EVERY MINUTE) WEAR GLOVES TO PROTECT YOURSELF!!!
- 5 Take 6 Calcium Tablets in 500 ml of water
- 6 Proceed to hospital with MSDS



First Aid Treatment for HF Burns

FIRST AIDER

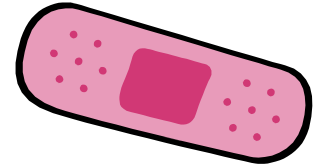
- 1 First responders must wear protective equipment
- 2 Call 000 and request an Ambulance
- 3 Stress that it is a **Hydrofluoric Acid** burn
NOT Hydrochloric Acid.
- 4 Apply points 3 to 6 as for Casualty



First Aid Treatment for HF Burns

TREATMENT FOR EYES

- 1 Summons for help
- 2 Flush with water for at least 20 minutes
- 3 Do NOT apply gel to eyes
- 4 Call 000 and request an Ambulance
- 5 Stress that it is a **Hydrofluoric Acid** burn
NOT Hydrochloric Acid.
- 6 Take 6 Calcium Tablets in 500 ml of water
- 7 Proceed to hospital with MSDS



First Aid Kits Contents

Gloves

A copy of the Material Safety Data Sheet

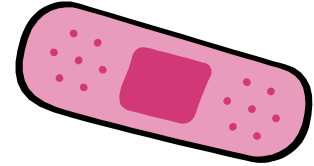
Gelflex Normal Saline

500 ml Bottle of Water

Sterile Pad

Calcium Gluconate Gel

SandoCal Calcium Effervescent Tablets



RE-ORDER INFORMATION

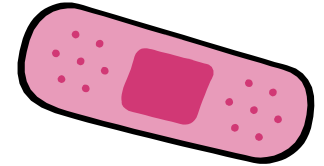
CALCIUM GLUCONATE GEL

Rowe Scientific PTY LTD

Phone 08 9302 1911

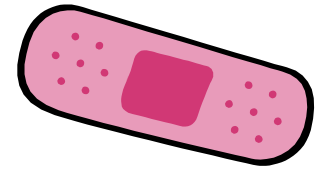
PRODUCT CODE : CC2350

MANUFACTURER : PERRIGO



CLEAN UP OF HYDROFLUORIC ACID SPILL

[FIRST AID TREATMENT]



EVACUATE AREA IMMEDIATELY

NOTIFY



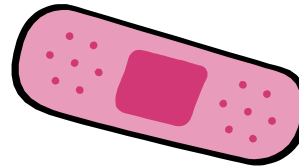
SAFETY OFFICER

Isolation signs to be placed at all exits !!

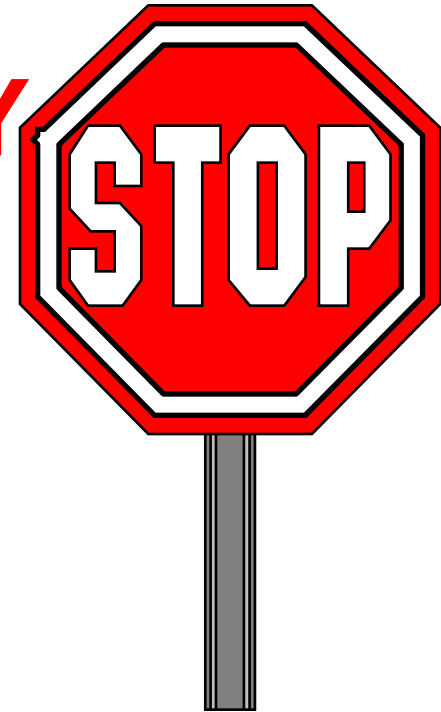


CLEAN UP OF HYDROFLUORIC ACID SPILL

ANY SIGNIFICANT SPILL



CALL THE EMERGENCY SERVICES



KEEP AREA ISOLATED
