

Title	IMDG Code 2016 / SUPPLEMENT / MFAG / Table 16
Effective Date	1-1-2012
Invalid from	1-1-2014
Note	Incorporating Amendment 35-10

TABLE 16

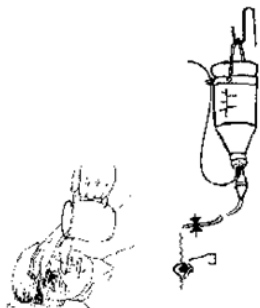
HYDROFLUORIC ACID AND HYDROGEN FLUORIDE

These chemicals are corrosive to living tissue. They may cause deep, slowly healing, and painful burns. Systemically, damage to the heart and convulsions may occur. Several fluorides react with water forming hydrogen fluoride.

The onset of local reactions, pain and other symptoms may be delayed up to 24 hours after exposure to lower concentrations. The surface of the skin may not be destroyed for several hours, but the increasing pain and redness indicate a continuing destruction of tissues underneath the skin.

Treatment for EYE CONTACT in all cases of exposure, regardless of symptoms

- **IMMEDIATE** washing of the eye with copious amounts of water.
- Remove contact lens.
- Keep the eyelids widely apart as illustrated.
- Direct water flow from inner to outer corner of the eye. Washing must be done thoroughly for ten minutes, timed by the clock.



- Anaesthetic eye drops should be instilled in the eye to ensure adequate irrigation of the eye.

Further advice on eye treatment: See Table 7

Treatment for SKIN CONTACT in all cases of exposure, regardless of symptoms

- Chemical protective gloves and clothing should be used while washing the casualty's skin. After decontamination, it is not necessary to use protective clothing.
- Cut, if necessary, the clothes by using shears.
- **IMMEDIATE** washing with copious amounts of water for at least ten minutes while removing contaminated clothing, rings, wristwatches, etc.
- After washing with water for 10 minutes, dry skin.
- Using latex gloves, massage exposed area with calcium gluconate gel for at least 15 minutes or until pain is relieved. Leave the gel on the skin. The gel should be re-applied 4-6 times daily for 3-4 days if a chemical burn is present.

If skin exposure exceeds 1% of body surface (approximately the size of the palm of the hand) and local symptoms (redness, pain, blisters)

- Give 5 g calcium gluconate, as effervescent tablets in 250 ml (1/2 pint) of water, to drink immediately and repeat two hours later. If calcium gluconate is not available, give milk.
- RADIO FOR MEDICAL ADVICE

Further advice on treatment of skin burns: See Table 8

Treatment for INHALATION in all cases of exposure, regardless of symptoms

- Remove the casualty from the polluted atmosphere, have him rinse his mouth and give one glass of water to drink.
- If breathlessness or wheezing are present, give oxygen at a flow rate of 8 litres per minute until symptoms resolve.
- **RADIO FOR MEDICAL ADVICE**

Further advice on breathing problems: See Table 9

Treatment for INGESTION in all cases of exposure, regardless of symptoms

- **RADIO FOR MEDICAL ADVICE**
- Have the casualty rinse mouth with water.
- Give 5 g calcium gluconate, as effervescent tablets in 250 ml (1/2 pint) of water, to drink immediately and repeat two hours later. If calcium gluconate is not available, give milk.

SIGNS & SYMPTOMS

Vomiting, abdominal pain, diarrhoea

TREATMENT

SIGNS & SYMPTOMS

Shock

TREATMENT

• RADIO FOR MEDICAL ADVICE and See Table 11

SIGNS & SYMPTOMS

Convulsions (seizures, fits)

TREATMENT

See Table 5