



## Actions to be taken

# ACCIDENT WITH LIQUID NITROGEN OR DRY ICE

(liquid nitrogen  $-196^{\circ}\text{C}$ , dry ice  $-80^{\circ}\text{C}$ )

## IMMEDIATE ACTIONS

### In case of direct or indirect cryogenic burn/frostbite

- **Rinse** with lukewarm water (maximum  $40^{\circ}\text{C}$ ) without rubbing for at least **15 minutes**.

### In case of eye damage

- **Rinse thoroughly** with plenty of clear running water for at least **5 minutes**, hold eyelids wide open, head tilted back and the affected eye looking downwards.
- Contact lenses tend to get washed away on their own, do not try to manually remove them.
- **Do not use any collyre** or eye solution.
- **Always consult an ophthalmologist even without symptoms.**

### In case of hypoxia/asphyxia

- **Symptoms:** decreased or slower than usual reflexes, headaches, nausea, dizziness, loss of consciousness.
- **Alert, ventilate, rescue** only if equipped with a self-contained breathing apparatus (ARI) eventually with a portable oxygen meter (alarm if  $\text{O}_2 < 19$ ). **Avoid using an unnecessary cartridge mask** in the event of a lack of oxygen.
- **Breathe fresh air away from the risk area.**

### In the event of a serious burn (extensive and/or deep) or asphyxiation, call:

- SAMU (15 or 112),
- Firefighters (18),
- By SMS for the deaf and hard of hearing (114).

## IN ANY CASE

- **Declare the accident** (medical certificate required).
- Inform your **safety manager** immediately.
- All injuries are to be reported using the **occupational health and safety logbook**.
- Report all incidents to the **Occupational Health Doctor** for investigation and follow-up.

## PROTECTION MEASURES

- Prior **information and training**.
- **CPE** : ventilated room with  **$\text{O}_2$  detector (visual and audible alarm)**.
- **PPE** : apron, face shield + safety glasses, blue cryogenic gloves (EN388, EN420, EN511), closed shoes, protective stockings, warm and covering clothing (long sleeves).
- Use **suitable and compatible materials**.
- **Prohibit airtight containers**, handling near a flame or a source of ignition.
- **Procedure detailing what to do in the event of an accident.**
- Use of **pictograms**.

