

HYDROGEN PEROXIDE

Personal Protection,
Emergency Procedures
and First Aid

HAZARDS

Potential hazards associated with Hydrogen Peroxide are:

- **Leaks and spills** leading to health, environmental and fire hazards.
- **Decomposition** leading to heat, pressure development and vapour release.

Exposure to Hydrogen Peroxide, depending on the concentration, can have various health effects from irritations to severe and permanent injuries to eyes, respiratory tract, any other soft tissues, and skin.

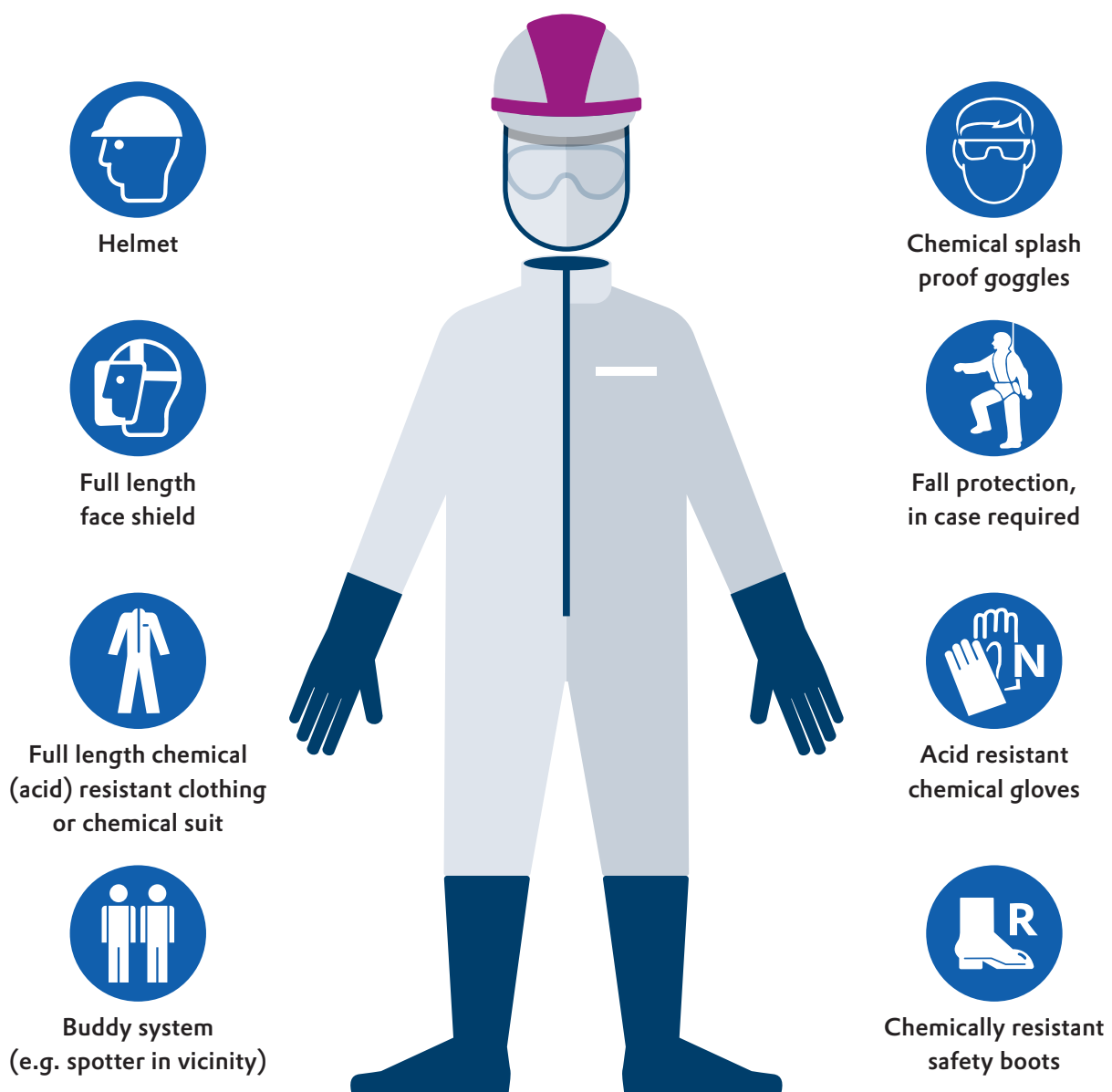
Consequently, in any case of an incident with Hydrogen Peroxide immediate action is necessary. Exposed persons should act or be treated according to the recommendations outlined in this brochure.

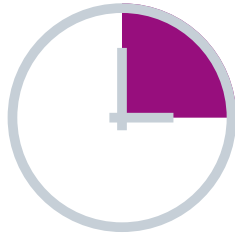
In case of any doubt seek immediate medical attention.

Any person handling or working near hydrogen peroxide should be familiar with the readily available safety data sheet (SDS).

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Personal Protective Equipment (PPE) requirements are to be defined based on a task level risk assessment. If lower levels of PPE than pictured below are applied, a jointly conducted task risk assessment of all involved parties is highly recommended.

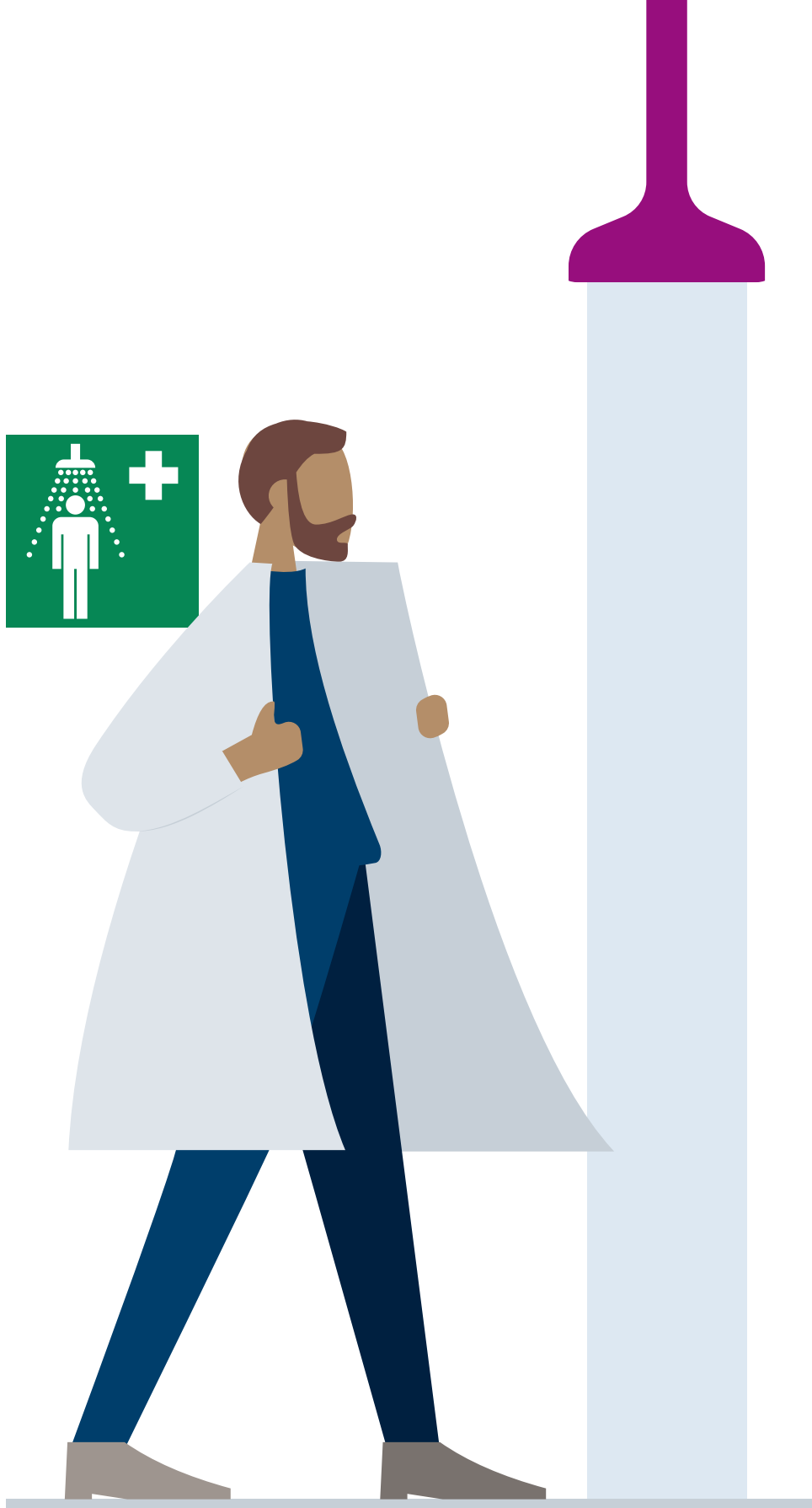




EYE CONTACT

- Immediately rinse eyes with copious amounts of water for at least 15 minutes. The eyes must be kept open during the rinsing.
- In case of serious eye injuries, continue irrigation during transport of the patient to an eye specialist (ophthalmologist).
- Immediately consult an ophthalmologist.

- Rinse open eyes with lots of water for an extended period of time.



SKIN CONTACT

- Immediately wash affected areas with copious amounts of water.
- Immediately remove contaminated clothing whilst under running water to avoid skin contact.
- If skin burns develop continue rinsing with water for at least 15 minutes.
- Cover burnt skin with sterile gauze.
- Seek medical attention.

- Wash with lots of water and remove contaminated clothing.



INHALATION

- Immediately move to fresh air.
- When providing assistance wear suitable (min. CO (NO) P3, no flammable materials such as activated carbon) respirator or a self contained breathing apparatus depending on the vapor exposure.
- In case of symptoms of irritation of the respiratory tract and the lungs (coughing, shortness of breath), allow the patient to rest in a half up-right position.
- If person is not breathing, immediately contact emergency medical services, then give artificial respiration (trained personnel only!).
- Seek immediate medical attention.

- Get to fresh air.
- In case of providing assistance wear respirator for self protection.



INGESTION

- Do not induce vomiting.
- If conscious, immediately rinse mouth and drink plenty of water.
- Seek immediate medical attention.

- Drink plenty of water.



LEAK OR SPILL

- Dilute with plenty of water (depending on concentration at least 10:1).
- Wash liquid from any contaminated surfaces with plenty of water.
- Never try to absorb the liquid.
- Do not attempt to recover spilled liquid and fill into any closed container or vessel.
- Only dispose of the liquid in a locally approved and safe way (if unsure, refer to Evonik for guidance on collection and disposal).

- Dilute with large amounts of water.
- Ensure your own safety by wearing appropriate PPE.



FIRE

- Use water only. Do not use any other substance.
- Use water spray to cool fire exposed containers, surfaces and protect personnel.
- Wear fire suit and self-contained breathing apparatus (SCBA) before entering the hazardous area.

- Use only water to extinguish fires with hydrogen peroxide involvement.
- Of course wear PPE and look after your personal safety (SCBA if fumes present).

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All information in this document is given in good faith and with the best knowledge available.
Local regulations must always be followed.

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