Annex I 103.02

Carbon oxychloride (phosgene)

Definition of causal agent

Carbon oxychloride is a colourless gas at ambient temperature and pressure with an odour of mouldy hay. The gas is heavier than air. It has a boiling point of 8.33° Celsius.

Main occupational uses and sources of exposure:

Carbon oxychloride is a widely used chemical intermediate, primarily in the preparation of a large number of organic chemicals. It is used in the synthesis of isocyanate-based polymers, carbonic acid esters and acid chlorides; and in the manufacture of dyestuffs, some insecticides and pharmaceuticals.

This gas is also generated when a volatile, chlorinated hydrocarbon compound has contact with flames or hot metal; thus it is a potential hazard for fire fighters, welders and dry cleaners.

Toxic or irritant effects

- 1. Acute respiratory effects
- respiratory tract irritation
- pulmonary oedema
- asphyxiation
- death

Delayed pulmonary oedema may develop after a (latent) period of up to 48 hours after exposure.

- 2. Acute ocular
- irritation and burning of the eyes
- 3. Acute dermal
- irritation and burning of the skin

Minimum intensity of exposure:0.8 mg/m-3Minimum duration of exposure:secondsMaximum latent period:48 hours