

Date: _____
 Installation: _____
 Unit: _____

Working Area: Laboratory
 Workplace/Activity: _____

Hazardous Substance Group

Chlorinated solvents

Example: Trichloroethene

Hazard for Human Health and the Environment



- Can potentially cause cancer
- Danger of toxic effect on central nervous system during prolonged exposure to chemicals
- Irritates eyes and skin
- Inhalation of vapors causes irritation to mucous membrane, coughing and shortage of breath, vapors may cause drowsiness
- Irreversible damage to health possible
- Swallowing causes nausea and vomiting (Attention: Danger of Aspiration!)
- Contact to skin causes irritations and degreasing of the skin
- Substances are water endangering

Protective Measures and Behaviour Rules



- During use, always wear safety goggles/face shields, protective clothing, protective gloves (e.g. fluoric rubber gloves) - only work under use of ventilation/ in extractor hood, in the event of release of vapours / aerosols wear breathing protection (e.g. during emptying, outside the extractor hood)
- Avoid exposure – get special guidance before use (read MSDS!)
- Immediately contact medical assistance in the event of accidents or nausea
- Make sure that area is well ventilated regularly
- Keep container tightly closed and store in well-ventilated area
- Avoid exposure to environment

Behavior in Danger Situations



- **Extinguishing device:** Adjust to surrounding area
- **Specific dangers during fire:** Vapours outweigh air. Air can possibly cause explosive mixtures. Fire can possibly cause the formation of dangerous fumes or vapours (hydrogen chloride, chlorine, phosgene), leave room immediately, warn surrounding area and **call Fire Department!**
- **Unintentional release:** Do not inhale vapours/aerosol (leave endangered area immediately, warn affected surrounding area) Do not enter endangered area without appropriate protective gear. Avoid intrusion into the ground or canalization. Use appropriate absorbent material for cleaning spilled liquids (Spill Kit!).

EMERGENCY NUMBER: 117 (Fire Department)

NEXT TELEPHONE: _____

First Aid



- After **eye contact:** Immediately flush thoroughly with plenty of water for at least 10 minutes, contact eye specialist
- After **skin contact:** immediately take off contaminated clothes, wash with water and soap thoroughly, then use rich skin lotion
- After **inhalation:** Remove to fresh air, artificial respiration or mouth-to-mouth breathing, if necessary, keep airways free, get medical attention
- After **swallowing:** Be careful during vomiting. Danger of aspiration! Activated carbon (20-40g in 10% supernatant). No castor oil, no milk, no alcohol, immediately get medical attention

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Proper Disposal



Collect waste/residuals in a resistant, lockable and labelled container and keep at the HWAP prior to proper disposal.

Additional Remarks

Special information with reference to possible hazards for human health and environment as well as to hazard characteristics of the individual hazardous substances should also be taken from the **Material Safety Data Sheets (MSDSs)**. For further information please refer to **“General Operating Instructions”**.