Risk assessment

MUL025 - Vacuum oven use (230912 Kimpel)

Produced 2022-08-17 By Joost Kimpel at Tillämpad kemi.
Modified 2023-09-22 By Joost Kimpel

Final risk assessment of the method

1. Acceptable risk

Assessment refers to work in the following premises

Lab 8112 and lab 8128

Description of activity

Use of vacuum oven to dry compounds or to store compounds under vacuum

Products

Please note that the categorisation of risks should be considered as guidance only.

High risk

Product name	Quantity	Concentration	Form	Danger	Comments
Nitrogen, refrigerated liquid [7727-37-9] **H281** **P282 , P336 + P315 , P403**	**500 mL**				

Hazard statements

H281	**Contains refrigerated gas; may cause cryogenic burns or injury.**

Precautionary statements

P282	**Wear cold insulating gloves and either face shield or eye protection.**
P336+P315	**Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.**
P403	**Store in a well-ventilated place.**

Chemicals inherent risk

- **b: High risk;**

Liquid nitrogen can cause frostbite

Level of exposure

- **Moderate;**

Ventilation

- **Level of protection 1 - bench;**

Under ventilation

Biological material

- **Not applicable;**

Requirements regarding premises and equipment in premises

- **Ventilation;**

Specification of storage

- **Not applicable;**

Do not store together with

- **Not applicable;**

Requirements regarding protective signs

- **Not applicable;**

Personal protective equipment

- **Protective glasses;** - **Protective gloves;** - **Protective clothing;** - **Protective shoes;**

Closed shoes must be worn, trousers over shoes

Environment

- **Emission to air;**

Waste management

- **Chemical waste;**

Collected solvent must be discarded

Hazardous actions

- **Heating;** - **Ventilation failure;**

Final risk assessment of the method

- **1. Acceptable risk;**

Participants in the assessment

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Documents

MUL025 - Vacuum oven use.pdf

Supervisor	Date
Christian Muller	

Date of re-assessment: 2024-10-01