



Information for employees working at the Faculty of Science

Not every glove is suited for every type of work. Wrongly ordered gloves lead to high risks for students and employees due to exposure to chemicals. This AMD information sheet describes what gloves are suited and which types may be ordered. Specific information sheets about gloves are available for users of gloves as well as for managers and supervisors (RhL020a and RhL020c). Please refer to information sheet RhL020 for more information on safety devices in general.

1 Introduction

Work safety regulations in The Netherlands require that the university, in its role as employer, must provide proper protection equipment, while the employees are obligated to apply these adequately. The role of a manager or (student) supervisor is to monitor the proper use of the protection equipment. Protection equipment is meant to reduce or eliminate the exposure to a certain hazard.

In the protection of hands against exposure to (hazardous) chemicals, gloves are often used. However, this is effective only when the specifications of the gloves are satisfactory for the specific substances one is working with, but then also only when the gloves are suitable for the activities in question. This also means that the choice of a glove should be based on a proper risk assessment of the user only, and never on financial considerations made by those who order the gloves.

2 What types of gloves may be ordered?

There are 4 types of gloves that may be used in chemical and biological work, each with its own recognizable color. Please do not order any other types beside these, because inconsistencies in colors, brands and types of gloves inevitably lead to mistakes and, thus, exposure to hazardous substances. What glove types are allowed, and their suitability, is shown in the below table 1: Glove type summary.

Table 1; Glove type summary

Glove	Identification	Application
<p>Patron Safety: Soft nitril –powder free Material: nitrile 2.5mils/3.5g</p>	 <p>Glove color: blue</p>	<p>No or hardly any personal protection, meant for protecting a product. Offers no chemical protection at all.</p>
<p>Shieldskin ecoSHIELD eco nitrile 250 Material: polychloroprene/nitrile category III PPE, AQL 0.65 G1 Extensively tested for chemical permeation (EN 16523-1:2015 supersedes EN 374-3:2003)</p>	 <p>Glove color: green</p>	<p>Chemically resistant. Permeation times vary depending on the substance. Please look here for permeation times of substances tested by Shieldskin</p>
<p>Shieldskin Orange Nitrile 260 Material: nitrile/polychloroprene category III PPE, AQL 0.65</p>	 <p>Glove color: orange</p>	<p>Limited chemical resistance; not suitable for solvents, suitable for some acids and bases. Please look here for permeation times of substances tested by Shieldskin</p>
<p>Microflex 93-260 Material: nitrile/neoprene composite, 0.19mm SATISFIES ASTM D 3577, TYPE II, PBM 89/686, EN 420, 388 & 374 Category III PPE</p>	 <p>Glove color: green/blue</p>	<p>High chemical resistance. Permeation times vary depending on the substance. See permeation times: Microflex 93-260</p>