

**US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)**

Components	Type	Value
HYDROQUINONE (CAS 123-31-9)	Ceiling	2 mg/m3
SILICA, AMORPHOUS, FUMED, CRYSTALLINE FREE (CAS 112945-52-5)	TWA	6 mg/m3

**US. OARS. Workplace Environmental Exposure Level (WEEL) Guide**

Components	Type	Value
Chloroacetic Acid (CAS 79-11-8)	TWA	1.9 mg/m3
		0.5 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines****US - Minnesota Haz Subs: Skin designation applies**

Chloroacetic Acid (CAS 79-11-8) Skin designation applies.

**US ACGIH Threshold Limit Values: Skin designation**

Chloroacetic Acid (CAS 79-11-8) Danger of cutaneous absorption

**US WEEL Guides: Skin designation**

Chloroacetic Acid (CAS 79-11-8) Can be absorbed through the skin.

**Appropriate engineering controls** Provide eyewash station and safety shower. Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust and/or mist, use process enclosure, appropriate local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection** Suitable chemical protective gloves should be worn when the potential exists for skin exposure. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Nitrile gloves are recommended.

**Other** Wear appropriate chemical resistant clothing if applicable.

**Respiratory protection** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties****Appearance**

**Physical state** Liquid.

**Form** Liquid.

**Color** Clear.

**Odor** Characteristic.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** ≥140 °F (≥60 °C)

**Flash point** 188.6 °F (87.0 °C)

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.