# 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000	US.	<b>OSHA Table Z-1</b>	Permissible Ex	posure Limits	(PEL)	for Air	<b>Contaminants</b>	(29 CFR 1910.10	(00)
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Components	Туре	Value
oxalic acid (CAS 144-62-7)	PEL	1 mg/m3
SULPHURIC ACID (CAS 7664-93-9)	PEL	1 mg/m3

#### **US. ACGIH Threshold Limit Values (TLV)**

Components	Туре	Value	Form
oxalic acid (CAS 144-62-7)	STEL	2 mg/m3	
	TWA	1 mg/m3	
SULPHURIC ACID (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction.

## NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Components	Туре	Value	
oxalic acid (CAS 144-62-7)	IDLH	500 mg/m3	
SULPHURIC ACID (CAS 7664-93-9)	IDLH	15 mg/m3	

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

Components	Туре	Value	
oxalic acid (CAS 144-62-7)	STEL	2 mg/m3	
	TWA	1 mg/m3	
SULPHURIC ACID (CAS 7664-93-9)	TWA	1 mg/m3	

**Biological limit values** 

Appropriate engineering

controls

No biological exposure limits noted for the ingredient(s).

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, butyl rubber or neoprene 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

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** 

Version: 01

Physical state Liquid.

Form Aqueous solution.

Color Colorless to light yellow.

Odor Mild.

FIR No.: 152570 SDS US

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