<b>US. ACGIH Threshold Limit Value</b>	es (TLV)			
Components	Туре	Value		
1,4-DIOXANE (CAS 123-91-1)	TWA	20 ppm		
ETHYLENE OXIDE (CAS 75-21-8)	TWA	1 ppm	1 ppm	
ISOBUTANE (CAS 75-28-5)	STEL	1000 ppm	1000 ppm	
POTASSIUM HYDROXIDE (CAS 1310-58-3)	Ceiling	2 mg/m3		
NIOSH. Immediately Dangerous t	o Life or Health (IDLH) Values	, as amended		
Components	Туре	Value		
1,4-DIOXANE (CAS 123-91-1)	IDLH	2 %		
		500 ppm		
ETHYLENE OXIDE (CAS 75-21-8)	IDLH	3 %		
		800 ppm		
PROPANE (CAS 74-98-6)	IDLH	IDLH 2.1 %		
		2100 ppm		
US. NIOSH: Pocket Guide to Che	mical Hazards Recommended	Exposure Limits (REL)		
Components	Туре	Value		
1,4-DIOXANE (CAS 123-91-1)	Ceiling	3.6 mg/m3		
		1 ppm		
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	100 mg/m3		
ETHYLENE OXIDE (CAS 75-21-8)	Ceiling	9 mg/m3		
		5 ppm		
	TWA	0.18 mg/m3		

## **Biological limit values**

(CAS 1310-58-3)

ISOBUTANE (CAS

POTASSIUM HYDROXIDE

PROPANE (CAS 74-98-6)

75-28-5)

**ACGIH Biological Exposure Indices (BEI)** 

Components	Value	Determinant	Specimen	Sampling Time	
ETHYLENE OXIDE (CAS 75-21-8)	5 μg/g	S-(2-hydroxyet hyl) mercapturic acid (HEMA)	Creatinine in urine	*	
	5000 pmol/g	N-(2-hydroxyet hyl)-valine (HEV) hemoglobin adducts	Hemoglobin adducts	*	

**TWA** 

Ceiling

**TWA** 

## **Exposure guidelines**

## US - California OELs: Skin designation

1,4-DIOXANE (CAS 123-91-1)

Can be absorbed through the skin.

0.1 ppm

800 ppm

2 mg/m3

1900 mg/m3

1800 mg/m3

1000 ppm

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<sup>\* -</sup> For sampling details, please see the source document.