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.

Components	Туре	Value	
PROPAN-2-OL (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
PROPANE (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
JS. ACGIH Threshold Limit Value	es (TLV)		
Components	Туре	Value	
BUTANE (CAS 106-97-8)	STEL	1000 ppm	
PROPAN-2-OL (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
NIOSH. Immediately Dangerous t	o Life or Health (IDLH) Values	s, as amended	
Components	Туре	Value	
BUTANE (CAS 106-97-8)	IDLH	1.6 %	
		2000 ppm	
		1600 ppm	
PROPAN-2-OL (CAS 67-63-0)	IDLH	2 %	
		2000 ppm	
PROPANE (CAS 74-98-6)	IDLH	2.1 %	
		2100 ppm	
US. NIOSH: Pocket Guide to Che	nical Hazards Recommended	l Exposure Limits (REL)	
Components	Туре	Value	
BUTANE (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
PROPAN-2-OL (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	
PROPANE (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
ogical limit values			
ACGIH Biological Exposure Indic	es (BEI)		

Bio

Components	Value	Determinant	Specimen	Sampling Time
PROPAN-2-OL (CAS	40 mg/l	Acetone	Urine	*
67-63-0)				

^{* -} For sampling details, please see the source document.

Appropriate engineering controls

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).

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