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Barium sulfate					
Synonyms & Trade Names Artificial barite, Barite, Barium salt of sulfuric acid, Barytes (natural)					
CAS No. 7727-43-7	RTECS No. CR0600000		DOT ID & Guide 1564 154 (barium compound, n.o.s.)		
Formula BaSO ₄	Conversion		IDLH N.D. See: IDLH INDEX		
Exposure Limits NIOSH REL : TWA 10 mg/m ³ (total) TWA 5 mg/m ³ (resp) OSHA PEL †: TWA 15 mg/m ³ (total) TWA 5 mg/m ³ (resp)			Measurement Methods NIOSH 0500 , 0600 See: NMAM or OSHA Methods		
Physical Description White or yellowish, odorless powder.					
MW: 233.4	BP: 2912°F (Decomposes)	MLT: 2876°F	Sol(64°F): 0.0002%	VP: 0 mmHg (approx)	IP: NA
Sp.Gr: 4.25-4.5	FLP: NA	UEL: NA	LEL: NA		
Noncombustible Solid					
Incompatibilities & Reactivities Phosphorus, aluminum [Note: Aluminum in the presence of heat can cause an explosion.]					
Exposure Routes inhalation, skin and/or eye contact					
Symptoms irritation eyes, nose, upper respiratory system; benign pneumoconiosis (baritosis)					
Target Organs Eyes, respiratory system					
Personal Protection/Sanitation (See protection codes) Skin: Prevent skin contact			First Aid (See procedures) Eye: Irrigate immediately		

Eyes: Prevent eye contact
Wash skin: Daily
Remove: No recommendation
Change: No recommendation
Provide: Eyewash, Quick drench

Skin: Soap wash
Breathing: Respiratory support
Swallow: Medical attention immediately

Respirator Recommendations

Not available.

Important additional information about respirator selection

See also: INTRODUCTION See ICSC CARD: 0827

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