



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
10	Health Hazard Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification				Page Number: 1
Common Name/ Trade Name	Pentaerythritol		Catalog Number(s).	PE103
			CAS#	115-77-5
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.		RTECS	RZ2490000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: Pentaerythritol
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	Not available.		THE CLUB OF	The Contest
Chemical Name				EMERGENCY 2 (24hr) 800-424-9300
Chemical Family	Not available.		CALL (310) 5	16-8000
Chemical Formula	C5H12O4			
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Pentaerythritol		115-77-5	10		20	100
Toxicological Data Pentaerythritol: on Ingredients ORAL (LD50): Acute: 25500 mg/kg [Mouse]. 19500 mg/kg [Rat]. 18500 mg/kg [Rabbit].						

Potential Acute Health Effects	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health
Effects
Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
The substance is toxic to lungs, mucous membranes.

Repeated or prolonged exposure to the substance can produce target organs damage.

Section 3. Hazards Identification

Pentaerythritol	Page Number: 2
Section 4. First A	id Measures
Eye Contact	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Serious Skin Contact	Not available.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Serious Inhalation	Not available.
Ingestion	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Serious Ingestion	Not available.
Cootion E Five on	d Evaluation Data

Section 5. Fire and E.	Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.		
Auto-Ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	Not available.		
Products of Combustion	These products are carbon oxides (CO, CO2).		
Fire Hazards in Presence of Various Substances	Not available.		
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.		
Special Remarks on Fire Hazards	Material in powder form, capable of creating a dust explosion.		
Special Remarks on Explosion Hazards	Not available.		

Section 6. Accidental Release Measures		
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.	
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.	

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Section 7. Han	dling and Storage
Precautions	Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label.
Storage	Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8. Exposure	Controls/Personal Protection	
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.	
Personal Protection	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
Exposure Limits	TWA: 10 CEIL: 20 (mg/m³)	
	Consult local authorities for acceptable exposure limits.	

Section 9. Physical a	nd Chemical Properties		
Physical state and appearance	Solid.	Odor	Not available.
Molecular Weight	136.15 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Not available.
Boiling Point	Decomposes.		
Melting Point	260°C (500°F)		
Critical Temperature	Not available.		
Specific Gravity	1.396 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	4.7 (Air = 1)		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Partially soluble in cold water.		

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Section 10. Stability	Section 10. Stability and Reactivity Data		
Stability	The product is stable.		
Instability Temperature	Not available.		
Conditions of Instability	Not available.		
Incompatibility with various substances	Not available.		
Corrosivity	Non-corrosive in presence of glass.		
Special Remarks on Reactivity	Not available.		

Section 11. Toxicological Information		
Routes of Entry	Not available.	
Toxicity to Animals	Acute oral toxicity (LD50): 18500 mg/kg [Rabbit].	
Chronic Effects on Humans	The substance is toxic to lungs, mucous membranes.	
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	Not available.	
Special Remarks on other Toxic Effects on Humans	Nuisance dust.	

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
Toxicity of the Products of Biodegradation	The products of degradation are more toxic.	
Special Remarks on the Products of Biodegradation	Not available.	

Special Remarks on Corrosivity

Polymerization

Not available.

No.

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Section 13. Disposal Considerations

Waste Disposal

Section 14. Transport Information		
DOT Classification	Not a DOT controlled material (United States).	
Identification	Not applicable.	
Special Provisions for Transport	Not applicable.	
DOT (Pictograms)		

Section 15. Other Regulatory Information and Pictograms

Federal and State Pennsylvania RTK: Pentaerythritol
Regulations Massachusetts RTK: Pentaerythritol
TSCA 8(b) inventory: Pentaerythritol

California California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.

Warnings California prop. 65: This product contains the following ingredients for which the State of California has found

to cause birth defects which would require a warning under the statute: No products were found.

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications WHMIS (Canada) CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC) This product is not classified according to the EU regulations.

HMIS (U.S.A.)



National Fire Protection Association (U.S.A.)



Flammability

Reactivity

Specific hazard

WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



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ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.



Section 16. Other Information

MSDS Code P3200

References Not available.

Other Special Considerations

Validated by Sonia Owen on 8/11/2006.

Verified by Sonia Owen.
Printed 9/13/2006.

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.