



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
210	Health Hazard 2 Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Xanthine		Catalog Number(s).	XA110
			CAS#	69-89-6
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.		RTECS	ZD7700000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: Xanthine
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	3,7-Dihydro-1H-purine-2,6-dione		DI CACE OF	
Chemical Name	Not available.			EMERGENCY (24hr) 800-424-9300
Chemical Family Not available.			CALL (310) 516-8000	
Chemical Formula	C5H4N4O2			
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) Xanthine		69-89-6				100
Toxicological Data on Ingredients	Xanthine LD50: Not available. LC50: Not available.		T	<u> </u>		

### Section 3. Hazards Identification

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

hazardous in case of inhalation.

**Potential Chronic Health** 

Very hazardous in case of ingestion. **Effects** 

Hazardous in case of skin contact (irritant), of eye contact (irritant).

Slightly hazardous in case of inhalation. **CARCINOGENIC EFFECTS**: Not available. **MUTAGENIC EFFECTS**: Not available. TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY**: Not available.

The substance is toxic to blood, kidneys, the nervous system.

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

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Section 4. First Aid Measures				
Eye Contact	Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.			
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. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.			
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.			
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.			

Section 5. Fire and E.	Section 5. Fire and Explosion Data				
Flammability of the Product	May be combustible at high temperature.				
<b>Auto-Ignition Temperature</b>	Not available.				
Flash Points	Not available.				
Flammable Limits	Not available.				
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).				
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	Not available.				
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.		

**Serious Ingestion** 

Not available.

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Section 7. Handling 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 breathe dust. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes			
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	Section 8. Exposure Controls/Personal Protection			
<b>Engineering Controls</b>	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.			
<b>Personal Protection</b>	Splash goggles. 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.			
<b>Exposure Limits</b>	Not available.			

Section 9. Physical and Chemical Properties				
Physical state and appearance	Solid. (Powdered solid.)	Odo	or	Not available.
Molecular Weight	152.11 g/mole	Tast	te	Not available.
pH (1% soln/water)	Not applicable.	Colo	or	Colorless to light yellow.
<b>Boiling Point</b>	Not available.			
<b>Melting Point</b>	Decomposes.			
Critical Temperature	Not available.			
Specific Gravity	Not available.			
Vapor Pressure	Not applicable.			
Vapor Density	5.3 (Air = 1)			
Volatility	Not available.			
Odor Threshold	Not available.			
Water/Oil Dist. Coeff.	Not available.			
Ionicity (in Water)	Not available.			
<b>Dispersion Properties</b>	Not available.			
Solubility	Insoluble in cold water.			

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
<b>Conditions of Instability</b>	Not available.	
Incompatibility with various substances	Not available.	

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Xanthine		Page Number: 4
Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Section 11. Toxicological Information				
<b>Routes of Entry</b>	Eye contact. Ingestion.			
<b>Toxicity to Animals</b>	LD50: Not available. LC50: Not available.			
<b>Chronic Effects on Humans</b>	The substance is toxic to blood, kidneys, the nervous system.			
Other Toxic Effects on Humans	Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant). Slightly hazardous in case of inhalation.			
Special Remarks on Toxicity to Animals	Not available.			
Special Remarks on Chronic Effects on Humans	Passes through the placental barrier in animal.			
Special Remarks on other Toxic Effects on Humans	Not available.			

Section 12. Ecological Information				
Ecotoxicity	Not available.			
BOD5 and COD	Not available.			
<b>Products of Biodegradation</b>	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.			

# Section 13. Disposal Considerations

Waste Disposal

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

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DOT (Pictograms)



### Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations TSCA 8(b) inventory: Xanthine

California

Proposition 65 Warnings

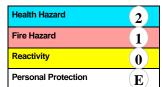
Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications** 

WHMIS (Canada) Not controlled under WHMIS (Canada).

**DSCL (EEC)** R36/38- Irritating to eyes and skin.

HMIS (U.S.A.)



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

Health



WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



**Protective Equipment** 



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.

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	Splash goggles.	

Section 16. Other Information			
MSDS Code	X3010		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen.	
		Printed 9/14/2006.	
CALL (310) 516-80	000		

#### **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.