





# Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment						
	<table><tr><td>Health Hazard</td><td>3</td></tr><tr><td>Fire Hazard</td><td>1</td></tr><tr><td>Reactivity</td><td>3</td></tr></table>	Health Hazard	3	Fire Hazard	1	Reactivity	3	<div></div> <div>See Section 15.</div>
Health Hazard	3							
Fire Hazard	1							
Reactivity	3							

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	P-Nitrophenol		Catalog Number(s).	N1099
			CAS#	100-02-7
Manufacturer	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		RTECS	SM2275000
			TSCA	TSCA 8(b) inventory: P-Nitrophenol
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	Not available.		<b><u>IN CASE OF EMERGENCY</u></b> <b><u>CHEMTREC (24hr) 800-424-9300</u></b>  CALL (310) 516-8000	
Chemical Name				
Chemical Family	Not available.			
Chemical Formula	C6H5NO3			
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) {P-}Nitrophenol	100-02-7				100
Toxicological Data on Ingredients		<b>P-Nitrophenol:</b> ORAL (LD50): Acute: 250 mg/kg [Rat]. DERMAL (LD50): Acute: 920 mg/kg [Mammal].			

Section 3. Hazards Identification	
Potential Acute Health Effects	Extremely hazardous in case of ingestion. Very hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Hazardous in case of skin contact (permeator). Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

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**Potential Chronic Health Effects**

Extremely hazardous in case of ingestion.  
Very hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.  
Hazardous in case of skin contact (permeator).  
**CARCINOGENIC EFFECTS:** Not available.  
**MUTAGENIC EFFECTS:** Not available.  
**TERATOGENIC EFFECTS:** Not available.  
**DEVELOPMENTAL TOXICITY:** Not available.  
The substance is toxic to kidneys, lungs, the nervous system, liver, mucous membranes.  
Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

**Section 4. First Aid Measures****Eye Contact**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. 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. 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**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

**Inhalation**

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Serious Inhalation**

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

**Ingestion**

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. 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.

**Section 5. Fire and Explosion Data****Flammability of the Product**

May be combustible at high temperature.

**Auto-Ignition Temperature**

283°C (541.4°F)

**Flash Points**

CLOSED CUP: 223°C (433.4°F).

**Flammable Limits**

Not available.

**Products of Combustion**

These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...).

**Fire Hazards in Presence of Various Substances**

Highly flammable in presence of shocks.

**Explosion Hazards in Presence of Various Substances**

Risks of explosion of the product in presence of static discharge: Not available.  
Highly explosive in presence of shocks.

**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.

**Large Spill** Use a shovel to put the material into a convenient waste disposal container.

**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 ingest. Do not breathe dust. Take precautionary measures against electrostatic discharges. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. 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 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** 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.

**Exposure Limits** Not available.

**Section 9. Physical and Chemical Properties**

<b>Physical state and appearance</b>	Solid. (Crystals solid.)	<b>Odor</b>	Sweetish. Characteristic.
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<b>Molecular Weight</b>	139.11 g/mole	<b>Taste</b>	Sweet. Burning. (Slight.)
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<b>pH (1% soln/water)</b>	Not available.	<b>Color</b>	Yellow or brown.
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**Boiling Point** 279°C (534.2°F)

**Melting Point** 113.5°C (236.3°F)

**Critical Temperature** Not available.

**Specific Gravity** 1.48 (Water = 1)

**Vapor Pressure** Not applicable.

**Vapor Density** 4.8 (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.

**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.
Special Remarks on Corrosivity	Not available.
Polymerization	No.

**Section 11. Toxicological Information**

Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 250 mg/kg [Rat]. Acute dermal toxicity (LD50): 920 mg/kg [Mammal].
Chronic Effects on Humans	The substance is toxic to kidneys, lungs, the nervous system, liver, mucous membranes.
Other Toxic Effects on Humans	Extremely hazardous in case of ingestion. Very hazardous in case of skin contact (irritant), of inhalation. Hazardous in case of skin contact (permeator).
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	Not available.

**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.

## Section 13. Disposal Considerations

Waste Disposal

## Section 14. Transport Information

DOT Classification CLASS 6.1: Poisonous material.

Identification : Nitrophenol : UN1663 PG: III

Special Provisions for Transport Not available.

DOT (Pictograms)



## Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations

Pennsylvania RTK: P-Nitrophenol  
 Massachusetts RTK: P-Nitrophenol  
 TSCA 8(b) inventory: P-Nitrophenol  
 SARA 313 toxic chemical notification and release reporting: P-Nitrophenol  
 CERCLA: Hazardous substances.: P-Nitrophenol

California Proposition 65 Warnings

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

Other Classifications

WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).  
 CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC) R22- Harmful if swallowed.  
 R38- Irritating to skin.  
 R41- Risk of serious damage to eyes.

HMIS (U.S.A.)

Health Hazard	3
Fire Hazard	1
Reactivity	3
Personal Protection	E

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

Health



Flammability

Reactivity

Specific hazard

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. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

**Section 16. Other Information****MSDS Code** N3470**References** Not available.**Other Special Considerations** Not available.

Validated by Sonia Owen on 8/11/2006.

Verified by Sonia Owen.

Printed 9/12/2006.

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.