

# MATERIAL SAFETY DATA SHEET

**Manufacturer's Name:** ALTANA INC.  
**Divisions:** E. FOUGERA & COMPANY DIVISION  
 PHARMADERM DIVISION  
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## SECTION 1: IDENTITY

**Product Name:** Nitroglycerin Ointment USP, 2%  
**Synonyms:** Nitrol Ointment 2%  
**CAS #:** 55-63-0  
**Chemical Family:** N/A  
**Formula:** Nitroglycerin in a Lactose Diluent, White Petrolatum, Lanolin USP, and Purified Water.

## SECTION 2: SAFETY and HAZARD RATINGS

		<u>RATINGS</u>
<b>Health (Acute-Chronic):</b>	2-2	<b>Minimal</b> 0
<b>Flammability:</b>	1	<b>Slight</b> 1
<b>Reactivity:</b>	0	<b>Moderate</b> 2
<b>Environment (Air-Water-Soil):</b>	0-0-0	<b>Severe</b> 3
<b>Special Hazards:</b>	None.	<b>Extreme</b> 4
<b>Protective Equipment:</b>	Applicator pads for normal use. Gloves and goggles for large quantities.	

## SECTION 3: EMERGENCY and FIRST AID PROCEDURES

**Eyes:** Flush immediately with plenty of water for at least 15 minutes. Get medical attention.  
**Skin:** Wash immediately and thoroughly with soap and water. If redness, itching or burning sensation develops, or person feels sick or dizzy, get medical attention. Wash contaminated clothing before reuse.  
**Ingestion:** Contact physician immediately.  
**Inhalation:** No applicable with normal use. In cases of overexposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Contact a physician.

CALL A PHYSICIAN  
 CONTACT A POISON CONTROL CENTER

## SECTION 4: INGREDIENTS

NAME	CAS#	%	CARCINOGEN			HAZARD DATA	
			IARC	NTP	OSHA	ACGIH TLV	OSHA PEL
Nitroglycerin	55-63-0	2	no	no	no	0.5ppm	.2ppm
Lanolin (hydrous)	8020-84-6		no	no	no	not established	
Purified Water	7732-18-5		no	no	no	not established	
White Petrolatum	8009-03-8		no	no	no	not established	

## SECTION 5: FIRE and EXPLOSION HAZARD DATA

Flash Point:	>110°C (230°F) (Closed Cup)
Auto-ignition Temperature °F:	Not determined.
Flammable Limits in Air by Volume LEL:	Not determined.
UEL:	Not determined.
Extinguishing Media:	Water, Carbon Dioxide, Monoammonium Phosphate Dry Powder, Halon 12M.
Special Fire Fighting Procedures:	Self-contained breathing apparatus, barricade.
Unusual Fire and Explosion Hazards:	This product will burn, but is not explosive and will not detonate. Nitroglycerin is a powerful explosive and separation of it from the ointment is extremely hazardous. If the fire is intense, product will be entirely consumed. Less intense smoldering-type fires can cause nitroglycerin to migrate and collect, leading to an explosion if sufficient heat is present.

## SECTION 6: REACTIVITY DATA (PHYSICAL HAZARDS)

Stability:	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
Conditions and Chemicals to Avoid:	Avoid high temperature in storage, contact with water, acid, base, and oxidizing materials.
Hazardous Combustion or Decomposition Products:	Nitrogen oxides.
Hazardous Polymerization:	<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur

## SECTION 7: HEALTH HAZARDS

Primary Route(s) of Entry:	Dermal, Ingestion.
<u>Signs and Symptoms of Exposure</u>	
a. Overexposure Effects:	a. May cause nausea, dizziness, vomiting, headache, reduced blood pressure, cyanosis.
b. Chronic Effects:	b. May cause severe headache, hallucinations, skin rash.
1. Inhalation:	1. None expected under normal conditions of use. Excessive exposure may result in overexposure effects.
2. Eyes:	2. May cause irritation.
3. Skin:	3. May cause irritation.
4. Ingestion:	4. May cause nausea, vomiting, dizziness, headache, reduced blood pressure, cyanosis.
5. Medical Conditions Potentially Aggravated:	5. Hypotension.

## SECTION 8: SPECIAL PRECAUTIONS and SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling/Storage:	Product should be stored in cool, dry place, away from sources of heat and flammable materials. Facility should be equipped with adequate fire protection. Store at controlled room temperature 59°-86°F (15°-30°C). Avoid high temperatures.
Hygienic Practices:	Wash thoroughly after handling. Use normal hygiene to protect hands, eyes and skin. Use general ventilation to protect your lungs. Do not wear contaminated clothing unless thoroughly laundered.
When Material is Released or Spilled:	DO NOT FLUSH WITH WATER. Assure slippery conditions are nullified. Add sand or dirt. Scoop up and remove to plastic-lined fiber containers immediately. Dispose of in accordance with federal, state and local regulations.
Waste Disposal Methods:	Assure conformity with applicable disposal regulations. Dispose of absorbed material at approved incineration or chemical landfill waste disposal site.

## SECTION 9: SPECIAL PROTECTION INFORMATION

<b>Respiratory Protection:</b>	General ventilation.
<b>Skin Protection:</b>	Applicator pads with normal use. Latex or rubber gloves for large quantities. do not wear plastic gloves unless cotton gloves are worn underneath.
<b>Eye Protection:</b>	Safety glasses with side shields, or safety goggles.
<b>Other Protective Clothing or Equipment:</b>	None with normal use. As needed to prevent repeated/prolonged contact.

## SECTION 10: CONTAINERS and LABELING

<b>Special Precautions:</b>	Keep container closed when not in use. Store in cool, dry conditions (temperature controlled: 59 <sup>0</sup> -86F, 15-30 <sup>0</sup> C) and away from sources of water, acids, bases and oxidizing materials. Facility should be equipped with adequate fire protection system.
<b>Recommended Container:</b>	As supplied.
<b>Protect the Container by:</b>	Avoiding physical damage and heat.
<b>Container Should be Handled in an Area with:</b>	Temperature control, fire protection system.
<b>The Empty Container is:</b>	Not reusable.
<b>Precautionary Label:</b>	Federal law prohibits dispensing without a prescription. Keep tightly closed. For topical use only.
<b>Warning Placard:</b>	Keep Out of Reach of Children.
<b>IMO Hazard Class #:</b>	Not applicable.
<b>UN/NA #:</b>	Not applicable.
<b>Hazard Classification:</b>	Not applicable.
<b>DOT Name:</b>	Not applicable.
<b>Shipping Instructions:</b>	Keep away from sources of heat, water, acids, bases and oxidizing materials.

## SECTION 11: ENVIRONMENTAL RISKS

<b>Aquatic Toxicity:</b>	Not determined.
<b>Biodegradability:</b>	Not determined.
<b>Partition Coefficient:</b>	Not determined.

## SECTION 12: REGULATORY INFORMATION

<b>Refer to the following references:</b>	<b>OSHA Regulations:</b>	If respirator used, 29 CFR 1910.134
	<b>DOT Regulations:</b>	Not applicable.
	<b>EPA Regulations:</b>	Not applicable.
	<b>Other:</b>	<b>FDA:</b>
		<b>NDC: 0168-0328-08</b>
		<b>0168-0328-30</b>
		<b>0168-0328-60</b>

**SECTION 13: PHYSICAL DATA**

<b>Appearance and Odor:</b>	<b>Ointment.</b>
<b>Molecular Weight:</b>	<b>Not applicable.</b>
<b>pH:</b>	<b>Not determined.</b>
<b>Refractive Index @ 20°C:</b>	<b>Not determined.</b>
<b>Viscosity @ 25°C:</b>	<b>Not determined.</b>
<b>Boiling Point:</b>	<b>Not determined.</b>
<b>Freezing/Melting Point:</b>	<b>Not determined.</b>
<b>Congealing Point:</b>	<b>Not indicated.</b>
<b>Vapor Pressure (mm Hg @ 20°C):</b>	<b>Not determined.</b>
<b>Vapor Density (Air=1):</b>	<b>Not determined.</b>
<b>Solubility in Water:</b>	<b>Not determined. Do not attempt to dissolve.</b>
<b>Solubility in Alcohol:</b>	<b>Not determined. Do not attempt to dissolve.</b>
<b>Solubility in Oil:</b>	<b>Not determined. Do not attempt to dissolve.</b>
<b>Solubility in Other:</b>	<b>No determined.</b>
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	<b>0.90</b>
<b>% Volatile by Volume:</b>	<b>Not determined.</b>
<b>Evaporation Rate (Ether=1):</b>	<b>0.005</b>

**Date of Preparation/Change:**  
May 27, 2004

**Revision #** 2

**Replaces**  
November 26, 1996

The information presented herein relates to the specific material described and may not be valid for this material used in combination with any other materials or in any process. This information is, to the best of our knowledge, accurate and reliable on the date compiled. We make no representation, warranty or guarantee as to its accuracy, reliability or completeness.

It is the reader's responsibility to ascertain whether the information supplied is suitable and complete for that person's specific uses. This Material Safety Data Sheet was prepared for ALTANA INC. by:

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