



4 N 1  
LUBRICANT/PENETRANT

MATERIAL SAFETY DATA SHEET

SECTION 1-CHEMICAL PRODUCT & COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b>	4 N 1 LUBRICANT/PENETRANT
<b>CAS NUMBER:</b>	MIXTURE
<b>Description:</b>	LUBRICANT
<b>Manufacturer:</b>	QUALITY AEROSOLS 313 Bell Park Drive Woodstock, Georgia 30188
<b>EMERGENCY TELEPHONE:</b>	CHEMTREC 1-800-424-9300
<b>General Assistance:</b>	1-877-320-4747

SECTION 2- COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT(S)	CAS #	% by Weight
Pale Oil	64742-52-5	2-12%
Mineral Seal Oil	64742-46-7	2-12%
2-Butoxyethanol	111-76-2	<5%
Tetrachloroethylene	127-18-4	75-85%
Carbon Dioxide	124-38-9	<5%

*Refer to Section 8 for exposure limits and recommendations.*

SECTION 3- HAZARDS IDENTIFICATION

**Emergency Overview:** Product is non-flammable. Pressurized container may explode when exposed to heat or flame. Contact may cause skin and eye irritation. Mist may cause nose and throat irritation. Ingestion may cause nausea, vomiting, pain, upset stomach, and diarrhea.

**Potential health effects:** **Skin Contact:** This product may cause irritation to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. This product may be harmful if it is absorbed through the skin. **Eye Contact:** Liquid or vapors may irritate the eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Eye contact may lead to permanent damage if not treated promptly. **Ingestion:** This product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. **Target Organs:** Central Nervous System, lungs, skin, eyes.

**Inhalation:** This product may cause dizziness, nausea, upper respiratory irritation, drowsiness, mental depression or narcosis, difficulty in breathing, irregular heart beats. See Section 8 for recommended exposure limits.



## SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product. **Eye Protection:** Wear goggles or safety glasses with side shields. **Skin and Body Protection:** Impervious gloves should be used when handling this product. Use of protective coveralls and long sleeves is recommended. **Respiratory Protection:** Use NIOSH approved respiratory protection. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA). **General:** Use good hygiene practices in handling this material.

Exposure Limits: Component(s)	(PARTS PER MILLION)					
	TLV	OSHA-PEL	OSHA-STEL	SARA 313	Prop 65	VOC
Pale Oil	400ppm	500ppm				
Mineral Seal Oil	No data available					
2-Butoxyethanol	20ppm			X		X
Tetrachloroethylene	100ppm		100ppm	X	X	
Carbon Dioxide	5000ppm	5000ppm	30000ppm			

Other raw material is considered trade secret.

## SECTION 9- PHYSICAL & CHEMICAL PROPERTIES

**Solids:** N/A  
**PH:** N/A  
**Specific Gravity:** 1.47  
**Physical State:** Liquid  
**%VOC:** 15.87%

**Evaporation Rate:** >1 (butyl acetate=1)  
**Boiling Point:** N/A  
**Color:** Clear  
**Odor:** Strong chemical odor w/ slight pineapple.

## SECTION 10-STABILITY & REACTIVITY

Hazardous polymerization will not occur. Condition to avoid: Keep away from sources of ignition. Avoid contact with strong oxidizers, reducers, acids, and alkalis. Stability: This product is stable under normal conditions.

## SECTION 11-TOXICOLOGICAL INFORMATION

**Pale Oil:** Oral LD50: >5 g/kg (rat)  
Dermal LD50: >5 g/kg (rabbit)  
**Mineral Seal Oil:** No data available  
**2-Butoxyethanol:** Oral LD50: 1,400 mg/kg (guinea pig)  
Inhalation LC50: 700ppm/7H (rat)  
Dermal LD50: 2,270 mg/kg (rat)  
**Tetrachloroethylene:** Oral LD50: 2,629 mg/kg (rat)  
Dermal LD50: >3,228 mg/kg (rabbit)  
**Carbon Dioxide:** IDLH: 40000ppm

## SECTION 12-ECOLOGICAL INFORMATION

No information available

## SECTION 13-DISPOSAL CONSIDERATIONS

We make no guarantee of warranty of any kind that the use of and/or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

**Waste Disposal:** Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

Ocean: UN 1950 Class 2.2 Aerosols, Limited Quantity

Air: We do NOT recommend this product to be shipped via air. It would need to be repacked by an authorized packing company and the DG would have to be completed by a licensed hazardous material shipping company.

## SECTION 15- REGULATORY INFORMATION

**Pale Oil:** SARA 311/312: Acute Health Hazard

**Mineral Seal Oil:** No data

**2-Butoxyethanol:** TSCA Inventory

SARA 311/312: Acute Health Hazard  
Chronic Health Hazard  
Fire Hazard

**Tetrachloroethylene:** TSCA Inventory

SARA 311/312: Acute Health Hazard  
Chronic Health Hazard

CERCLA: Tetrachloroethylene (127-18-4) 100lbs.

**Carbon Dioxide:** TSCA Inventory

SARA 311/312: Acute Health Hazard  
Chronic Health Hazard

<b>HEALTH</b>	<b>2</b>	
<b>FLAMMABILITY</b>		<b>0</b>
<b>REACTIVITY</b>		<b>0</b>

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exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all direction and warnings on the label be read and understood.