



Section 1 – Product & Company Identification

Product Name: **Pine-O-San**
 Product ID Number: 395
 Product Use: Disinfecting Cleaner/Deodorizer
 EPA Reg. Number: 11668-13-5747
 Manufacturer: Arrow Chemical Products, Inc.
 2067 Ste. Anne
 Detroit, MI 48216
 Telephone: 313-237-0277
 Numbers: 24 hr. Emergency Assistance: Infotrac 1-800-535-5053

Section 2 – Composition/Information on Ingredients

INGREDIENT	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Potassium Hydroxide	1310-58-3	0 – 5	PEL/ TLV: 2 mg/m3	Not Established
Pine Oil	8002-09-3	<75%	PEL/ TLV: 100 ppm	See Section 11

Section 3 – Hazards Identification

Emergency Overview:

Potential Health Effects:

Acute: Eye, Skin, Ingestion, Inhalation irritant. May be more irritating to some than others, such as asthmatics.
 Chronic: Potential kidney damage from prolonged breathing, skin contact, or ingestion.
 Carcinogenic Effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4 – First Aid Measures

Eyes: Immediately flush with plenty of water, at least 15 minutes. Get medical attention.
 Skin/Clothing: Wash with mild soap to remove all traces of oily matter. Seek medical attention if irritation persists.
 Inhalation: Move person to fresh air. Seek medical attention if irritation persists. Minimize exposure especially in confined areas.
 Ingestion: Do **NOT** induce vomiting. Immediately drink 2 – 3 glasses of milk and get immediate medical attention.
 Note to Physician: None

Section 5 – Fire Fighting Measures

Hazardous Combustion Products: Not available.
 Extinguishing Media: Foam, carbon dioxide, dry chemical
 Fire Fighting Equipment & Instructions: Not available.
 Remarks on Explosion Hazard: Not available.

Section 6 – Accidental Release Measures

Spill and Leak Procedures

Small Spills: Absorb with inert material.
 Large Spills: Eliminate and ignition source, stop spill as quickly as possible; contain spill area with dike and other available confinement. Pump into salvage tank. Wash spill area with soap and water.
 Personal Protection for Spills: Gloves, safety goggles, protective clothing and respirator where applicable.

Section 7 – Handling & Storage

Handling Procedures: Keep container closed when not in use. Avoid contact with eyes, skin, and clothing. Do not ingest.
 Storage Procedures: KEEP OUT OF REACH OF CHILDREN. Store away from oxidizers and any ignition source. Keep container closed during storage.
 Store in a cool, dry, well-ventilated place.
 Incompatibility: All oxidizing materials.

Section 8 – Exposure Controls/Personal Protection

Personal Protective Equipment:

Eyes/Face: Face shield and Chemical anti-splash safety goggles.
 Skin: Rubber gloves.
 Respiratory: NIOH/MSHA approved TC-23-76 and TC-23-123 for organic vapor.
 The following ingredients have established exposure guidelines:

INGREDIENT:	EXPOSURE GUIDELINE	GUIDELINE VALUE
-------------	--------------------	-----------------

See Section 2
 All TWAs are for an 8-hour period and all STELs are for 15 minutes unless specifically noted as being for another time period.

Section 9 – Physical & Chemical Properties

Flash Point: >172° F.
 Specific Gravity: 0.912
 Boiling Point: 365°
 VOC Content: N/A
 Evaporation Rate (Water = 1): 1
 pH: 8.5 -9.5
 Solubility: Emulsifies
 Flammable Limits: Not determined.
 Explosion Hazards: None
 Appearance and Odor: Pale yellow liquid, Strong pine odor

Section 10: Stability & Reactivity

Chemical Stability: Stable
 Incompatibilities: All oxidizing materials
 Hazardous Decomposition: Oxides of carbon, hydrocarbons, degraded alcohols and terpene hydrocarbons.
 Hazardous Polymerization: Will not occur.
 Conditions to avoid: None

Section 11 – Toxicological Information

Routes of Entry: Eyes, skin, ingestion, inhalation
 Carcinogenicity: No Carcinogenicity data available for this product.
 Toxicity to Animals: Ingredient: Pine Oil CAS# 8002-09-3
 Acute Oral LD50: 3200 mg/kg [Rat]
 Acute Dermal LD50: 5000 mg/kg [Rabbit]
 Acute Effects on Humans: Kidney irritant and mild allergen. May be more irritating to some than others, such as asthmatics.
 Chronic Effects: Potential kidney damage from prolonged breathing, skin contact, or ingestion.
 Special Remarks on Toxicity:

CHEMICAL INGREDIENTS LISTED AS POTENTIAL OR KNOWN CARCINOGENS

INGREDIENT:	OSHA	NTP	IARC
No ingredients listed in this section.			

Section 12 – Ecological Information

Ecotoxicity: No data available for this product.
 Environmental Fate: This product is biodegradable.

Section 13 – Disposal Considerations

Disposal Instructions: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14 – Transportation Information

DOT Hazard Class: N/A
 DOT Proper Shipping Name: N/A
 TDG Classification: Not controlled under TDG (Canada).

Section 15 – Regulatory Information

TSCA Status
 All ingredients are listed on the TSCA Chemical Inventory.
DSL/NDSL: All components listed unless noted elsewhere on this MSDS.
CERCLA/SARA
SARA Title III, Sections 311/312 – This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370: Classification of this product: Irritant.
SARA Title 313 – This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

CHEMICAL NAME	CAS NO.	MAXIMUM CONCENTRATION	COMMENT
No ingredients listed in this section.			

Reportable Quantities/Threshold Planning Quantities: CERCLA requires notification of the National Response Center (Telephone 1-800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs). SARA 302/304 requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and/or release of Reportable Quantities.

CHEMICAL NAME	REPORTABLE QUANTITY (RQ)	THRESHOLD PLANNING QUANTITY (TPQ)
Potassium Hydroxide CAS# 1310-58-3	1,000 Lbs.	

State & Provincial Right to Know & Selected Regulatory Lists

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List

CHEMICAL NAME	STATE LIST
None	None
AZ – Arizona Ambient Air Quality Guidelines	IL – Illinois Toxic Air Contaminant – Carcinogenic
CT – Connecticut Hazardous Air Pollutants	MA – Massachusetts Right to Know List
CA – California Director's List of Hazardous Substances	MN – Minnesota Hazardous Substance List
CA65C – California Prop 65 Carcinogen	NJ – New Jersey Right to Know List
CA65R – California Prop 65 Reproductive Toxin	PA – Pennsylvania Right to Know List
FL – Florida Substances List	RI – Rhode Island Hazardous Substance List
ID – Idaho Non-carcinogen Toxic Air Pollutants	

WHMIS Classification: Not controlled under WHMIS (Canada).

Section 16 – Other Information

Hazard Ratings

Hazard Rating Scale:

Hazard Rating Scale:

4 = Extreme
 3 = High
 2 = Moderate
 1 = Slight
 0 = Insignificant

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

Information Contact: Arrow Chemical Products, Inc., 2067 Ste. Anne, Detroit, MI 48216

The seller makes no warranty expressed or implied concerning the accuracy of any results to be obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.