



MATERIAL SAFETY DATA SHEET

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME | Austin's Pine Oil Cleaner Disinfectant

PRODUCT CODE | 1660

ISSUE DATE | March 19, 2003

EMERGENCY TELEPHONE NUMBERS

Medical Information: 1-866-359-5662

Transportation: 1-800-424-9300*

* For spill, leak, fire or transport accident emergencies.

Product Information: 724-625-1535

MANUFACTURER | James Austin Company
STREET ADDRESS | 115 Downieville Road
CITY, STATE, ZIP | Mars, PA 16046

SECTION 2 -- COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS No.	% by wt.	EXPOSURE LIMITS		
			OSHA PEL	ACGIH TLV	NIOSH REL
Isopropyl Alcohol	67-63-0	9.90	400 ppm TWA 500 ppm STEL	400 ppm TWA 500 ppm STEL	400 ppm TWA 500 ppm STEL
Alkylphenol ethoxylate	9016-45-9	5.18	None	None	None
Pine Oil	8002-09-3	2.44	Not est.	Not est.	Not est.
Sodium Sesquicarbonate	533-96-0	1.50	Not est.	Not est.	Not est.
Tetrasodium salt of ethylene-diaminetetraacetic acid; EDTA	64-02-8	1.32	Not est.	Not est.	Not est.
Di-n-alkyl (C8/C10-50%, C10/C10-30%; C8/C8-20%) dimethyl ammonium chloride	68424-95-3	0.83	Not est.	Not est.	Not est.
n-Alkyl (C14-50%, C12-40%, C16-10%) dimethyl benzyl ammonium chloride	68424-85-1	0.64	Not est.	Not est.	Not est.
Ethyl Alcohol	64-17-5	0.45	Not est.	Not est.	Not est.

SECTION 3 -- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	Causes skin and eye irritation. Harmful if swallowed.
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POTENTIAL HEALTH EFFECTS	
INGESTION	Can cause gastrointestinal tract irritation, nausea, or vomiting. Aspiration may cause pulmonary edema and chemical pneumonitis.
INHALATION	Vapors may be irritating to the respiratory tract.
EYE CONTACT	Causes eye irritation. Severe contact may result in slow healing corneal and iridic injury.
SKIN CONTACT	Prolonged or repeated contact may cause skin irritation.

SECTION 4 -- FIRST AID MEASURES

INGESTION	If swallowed, DO NOT induce vomiting. Immediately drink a large quantity of water followed with citrus juice. Never give anything by mouth to an unconscious person. Get medical attention immediately.
INHALATION	Remove to fresh air. Treat any irritation symptomatically. Call a physician.
EYE CONTACT	Immediately flush eye with plenty of cool, running water. Remove contact lenses if applicable, and continue flushing for at least 15 minutes. Get medical attention immediately.
SKIN CONTACT	Wash with soap and water. If irritation develops or persists, get medical attention.
NOTE TO PHYSICIAN	Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock and respiratory depression may be needed.

SECTION 5 -- FIRE FIGHTING MEASURES

FLASH POINT / METHOD	133 Deg F	FLAMMABLE LIMITS	none
EXTINGUISHING MEDIA	If involved in a fire, foam, carbon dioxide or dry chemical. Water may cause frothing.		
SPECIAL FIRE FIGHTING PROCEDURES	Cool containers with water if exposed to fire. Use self-contained breathing apparatus to protect against toxic vapors which may be released during a fire.		
FIRE AND EXPLOSION HAZARDS	None		

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

RESPONSE TO SPILLS	Small spills: Flush to sanitary sewer. Mop up residue and rinse area thoroughly with water. Large spills: Dike or dam spill. Pump to containers or soak up on inert absorbent.
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SECTION 7 -- HANDLING AND STORAGE

HANDLING PRECAUTIONS	Wash hands before eating. Keep container tightly closed when not in use.
STORAGE PRECAUTIONS	Store in a cool dry place. Keep from freezing. Keep away from heat, sparks and flame. Keep away from children.

SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION

HYGIENIC PRACTICES	Avoid contact with eyes, skin and clothing. Remove contaminated clothing and wash before reuse.
ENGINEERING CONTROLS	Provide adequate ventilation. Facilities using this product should be equipped with an eyewash station.

PERSONAL PROTECTIVE EQUIPMENT

	RESPIRATOR	Not necessary
X	GOGGLES / FACE SHIELD	Required; goggles should be chemical splash type
	APRON	Not necessary
X	GLOVES	Required; PVC, Neoprene or Nitrile acceptable
X	BOOTS	Recommended for floor cleaning applications

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear brown liquid	BOILING POINT	110 deg F
ODOR	Pine	FREEZING POINT	32 deg F
pH	10.5	VAPOR PRESSURE	VP of water
SPECIFIC GRAVITY	1.005	VAPOR DENSITY	NA
SOLUBILITY IN WATER	100%	EVAPORATION RATE	NA

SECTION 10 -- STABILITY AND REACTIVITY

CHEMICAL STABILITY		STABLE	X		UNSTABLE	
CONDITIONS TO AVOID	No special precautions beyond standard safe industrial practices.					
INCOMPATIBILITY	Contact with strong oxidizers should be avoided.					
HAZARDOUS PRODUCTS OF DECOMPOSITION	Carbon monoxide/unidentified organic compounds can be formed during combustion.					
POLYMERIZATION		WILL NOT OCCUR	X		MAY OCCUR	
CONDITIONS TO AVOID	Not applicable					

SECTION 11 -- TOXICOLOGICAL INFORMATION**CARCINOGENICITY**

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
X	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910, Z

OTHER EFFECTS

ACUTE	Not determined
CHRONIC	Not determined

SECTION 12 -- ECOLOGICAL INFORMATION

BIODEGRADABILITY		CONSIDERED BIODEGRADABLE	X		NOT BIODEGRADABLE	
BOD / COD VALUE	Not established					
ECOTOXICITY	No data available					

SECTION 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD	Small amounts of unused product may be flushed to the sanitary sewer with plenty of water. Contact local water board before flushing large amounts. If solidified, large amounts may be disposed of in a sanitary landfill. Contact state or local authorities for additional restrictions.								
RCRA CLASSIFICATION	Non-hazardous								
RECYCLE CONTAINER		YES	X		CODE	2 - HDPE		NO	

SECTION 14 -- TRANSPORT INFORMATION

DOT CLASSIFICATION		HAZARDOUS			NOT HAZARDOUS	X
DOT Proper Shipping Name	Flammable Liquid, n.o.s.					
Hazard Class	3					
Identification Number	UN1993					
Packing Group	III					
Label/Placard	Flammable					
EXCEPTIONS	Consumer Commodity, ORM-D. Exempted by DOT for containers of 1 gallon or less.					

SECTION 15 -- REGULATORY INFORMATION

REGULATORY STATUS

X	EPA REGISTERED (UNDER FIFRA)	1672-14
	FDA REGULATED	
	KOSHER	
	SARA TITLE III MATERIAL	
	USDA AUTHORIZED	

SECTION 16 -- OTHER INFORMATION

NFPA CLASSIFICATION

2	BLUE	HEALTH HAZARD
2	RED	FLAMMABILITY
0	YELLOW	REACTIVITY
--	WHITE	SPECIAL HAZARD

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by James Austin Company in connection with the use of this information.