



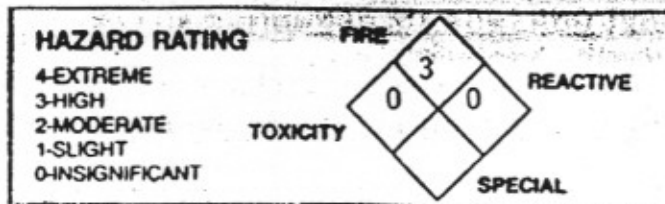
Material Safety Data Sheet

SECTION I — IDENTITY AND MANUFACTURER'S INFORMATION

Manufacturer's Name	James Varley & Sons, Inc.	Product Name	St. Louie Blue
Address	1200 Switzer Avenue St. Louis, Missouri 63147	Date Prepared	February 15, 1988
Emergency Telephone No. And Other Information Calls	314-383-4372		

SECTION II — HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity: Common Name(s))	CAS #'s	ACGIH TLV	Listed as a Carcinogen in NTP	% (Optional)
Isopropyl Alcohol	67-63-0	400 PPM	No	< 15%
Ethyl Alcohol	64-17-5	1000 PPM	No	< 5%
Propylene Glycol Methyl Ether	107-98-2	100 PPM	No	< 3%



SECTION III — PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	150 °F	Specific Gravity (H ₂ O = 1)	0.980
Vapor Pressure (mm Hg.)	N/A	Percent Volatile By Volume (%)	> 99
Vapor Density (AIR = 1)	N/A	Evaporation Rate (WATER = 1)	< 1
Solubility in Water	Complete	Appearance and Oor	alcohol odor, blue liquid

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	92 °F Closed Cup	Flammable Limits for isopropanol	LEL 2.0%	UEL 12.0%
Extinguishing Media	Foam, carbon dioxide or dry chemicals			
Special Fire Fighting Procedures	Firefighting personnel wear self contained breathing apparatus and protective clothing.			
Unusual Fire and Explosion Hazards	Flammable. Use water spray to cool fire exposed containers KEEP AWAY FROM OPEN FLAME OR EXTREME HEAT			

SECTION V — PHYSICAL HAZARDS

Stability	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>	Conditions to Avoid	Keep away from open flame or extreme heat
Incompatibility (Materials to Avoid)	N/A		
Hazardous Decomposition Products Or Byproducts	N/A		

Hazardous Polymerization	May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	Conditions To Avoid	N/A
--------------------------	--	---------------------	-----

SECTION VI — HEALTH HAZARD DATA

Route(s) of Entry EYES: Yes Inhalation? Yes Skin? No Ingestion? No

Signs and Symptoms of Exposure Excessive fumes will cause irritation to nose, throat and eyes. Contact with eyes will cause severe irritation.

Medical Conditions Generally Aggravated by Exposure N/A

Emergency and First Aid Procedures If swallowed, drink large amounts of water. Get Medical Attention. If contact with eyes, flush with water for at least 15 minutes. Get Medical Attention. If contact with skin, wash with soap and water.

SECTION VII — PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled Avoid breathing excessive vapor. Remove all sources of ignition. Mop or wipe up and flush remainder with large amounts of water.

Waste Disposal Method Dispose in accordance with government regulations

Precautions To Be Taken In Handling And Storing Keep away from sparks, open flame or heat

Other Precautions KEEP OUT OF REACH OF CHILDREN

SECTION VIII — CONTROL MEASURES

Respiratory Protection (Specify Type) Ventilate to keep air below TLV

Ventilation	Local Exhaust	Mechanical (General)	Special	Other
	<u>Yes</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Protective Gloves N/A Eye Protection Goggles

Other Protective Clothing Or Equipment N/A

Work/Hygienic Practices N/A

NOTICE: NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE, ARE MADE WITH RESPECT TO INFORMATION CONCERNING THE PRODUCT REFERRED TO IN THIS MATERIAL SAFETY DATA SHEET. The goal of defining precisely, in measurable terms, every possible health effect that may occur in the workplace as a result of chemical exposures cannot realistically be accomplished. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 C.F.R. 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof. James Varley & Sons, Inc., however, makes no representations as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving same will be required to make their own determination as to its suitability for their purposes prior to use. In no event will James Varley & Sons, Inc., be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this Material Safety Data Sheet. The ultimate compliance with federal, state or local regulations concerning the use or disposal of this compound, or compliance with respect to products liability, rests solely upon the purchaser thereof.