

## **MATERIAL SAFETY DATA SHEET**

Product Name/Code SAMAN OIL BASED HYBRID VARNISH (gloss, semi-gloss, satin, mat) / SAM-595, SAM-565, SAM-535, SAM-505		HMIS CODES health 1 flammability 0 reactivity 0				
Section 1 Product and Company Identification						
Manufacturer's name		Emergency Tel	lephone Number			
Saman 3777472 Canada inc.		819-751-23	819-751-2350			
Address (Number, Street, City, State and ZIP Code)			mber for Information			
1235, rue de L'Acadie Victoriaville (Québec) Canada G6T 1W4		819-751-23	50			
Date May 2011		Prepared by	Yvan Désilets			
Section 2 Hazardous Ingredients/Identity Inform	ation					
HAZARDOUS COMPONENTS NAME / CAS NO.	WT %	OSHA PEL	ACGIH TLV	ORAL LD50 (RAT)	DERMAL LD50 (RABBIT)	
N-methyl-2-pyrrolidone (NMP) / 872-50-4	1-5	n/a	n/a	4990 mg/kg	8000 mg/kg	
triethylamine (TEA) / 121-44-8	0.1-1	n/a	10 ppm	460 mg/kg	570 mg/kg	
1,2-propanediol / 57-55-6	0.5-1.5	n/a	5 mg/m <sup>3</sup>	20 mg/kg	20.8g/kg	
dipropylene glycol monomethyl ether (DPM) / 34590-94-8	1-5	n/a	125 mg/m <sup>3</sup>	5135 mg/kg	9500 mg/kg	
propylene glycol monobuthyl ether (PnB) / 5131-66-8	0.1-1	n/a	n/a	2200 mg/kg	3100 mg/kg	
dibutyl phthalate (DBP) / 84-74-2	1-5	n/a	5 mg/m <sup>3</sup>	8 mg/kg	>20 ml/kg	
Section 3 Physical/Chemical Characteristics						
Appearance and Odor yellowish liquid, mild odor						
	2-1.03	Viscosity Zahn	cup #2 (seconds)	34-3		

Specific Gravity (H $O = 1$ )	1.02-1.03	Viscosity Zahn cup #2 (seconds)	34-36
рН	7.8-8.2	% Volatile by Weight	70 ± 1
Boiling Point (°F)	192-644	Melting Point (°F)	n/a
Vapor Pressure (mm Hg)	54 (TEA)	Vapor Density (AIR = 1)	9.6 (DBP)
Evaporation Rate (Butyl Acetate = 1)	0.08 (PnB)	VOC (g/l)	235

Solubility in Water miscible

## Section 4 Fire and Explosion Hazard Data <sup>UEL</sup> n/a Flash Point (Method Used) n/a <sup>LEL</sup> n/a Flammable Limits Extinguishing Media foam, carbon dioxide, water spray, dry powder Use water spray to cool containers in fire area. Special Fire Fighting Procedures Use self-contained breathing apparatus and full protective clothing.

Stability         Stability         Conditions to Avoid         none known           Incompatibility         (Materials to Avoid)         oxidizing agents, strongly alkaline and strongly acid materials           Hazardous Decomposition or Byproducts         Thermal decomposition will produce carbon dioxide and may yield carbon moxides of nitrogen, etc.           Hazardous Polymerization         will not occur         Conditions to Avoid         n/a           Section 6 Health Hazard Data         Route(s) of Entry         eye and skin contact, inhalation, ingestion           Health Hazards         This product may be an eye irritant. Prolonged or repeated contact may cause skin irritation. Prexposure in poorly ventilated area may cause headache, dizziness and respiratory tract irritation may cause gastrointestinal irritation, nausea and diarrhea.           Carcinogenerity         no           Medical Conditions         Eye:         Check for and remove any contact lenses. Immediately flush with p water. Get medical aid.           Skin:         Remove contaminated clothing. Wash skin thoroughly with soap ar Inhalation:         Remove to fresh air. Administer artificial respiration if necessary. G aid.           Ingestion:         Do not induce vomiting. Give 1-2 glasses of water to dilute stomact Get medical aid. If vomiting occurs spontaneously, keep head belor prevent aspiration of liquid into lungs. Never give anything by mout unconscious person.           Stepts to Be Taken in Case Material Is Released or Spilled         Stop leak if without risk. Prevent entry int	2/2
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Engineering controls Provide adequate ventilation. Local exhaust in addition to general room ventilation may be r	
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	equired to
meet exposure limit(s).	
Personal Protection Respiratory: none required with normal use in well-ventilated area	
NIOSH approved respirator is advised for poorly ventilated areas.	
Eye/Face: Safety glasses, splash googles.	
Skin: Wear chemical resistant gloves. Wear long legged, long sleeve work clothes. La	under
contaminated clothing before reuse.	
Work/Hygienic Practices Do not store, use, and/or consume foods, beverages, tobacco products or cosmetics nex	t to materia
Wash hands and face carefully after work.	

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.