MATERIAL SAFETY DATA SHEET

Product Name/Code	HMIS CODES
SAMAN OIL BASED HYBRID VARNISH (gloss, semi-gloss, satin, mat) / SAM-595, SAM-565, SAM-535, SAM-505	health 1 flammability 0 reactivity 0

Section 1 Product and Company Identification

Manufacturer's name	Emergency Telephone Number
Saman 3777472 Canada inc.	819-751-2350
Address *(Number, Street, City, State and ZIP Code)*	Telephone Number for Information
1235, rue de L'Acadie Victoriaville (Québec) Canada G6T 1W4	819-751-2350
Date January 2015	Prepared by Yvan Désilets

Section 2 Hazardous Ingredients/Identity Information

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^3	20 mg/kg	20.8g/kg
dipropylene glycol monomethyl ether (DPM) / 34590-94-8	1-5	n/a	125 mg/m^3	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^3	8 mg/kg	>20 ml/kg

Section 3 Physical/Chemical Characteristics

Appearance and Odor: yellowish liquid, mild odor

Specific Gravity (H_2O = 1)	1.02-1.03	Viscosity Zahn cup #2 (seconds)	34-36
pH	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

Flash Point (Method Used)	Flammable Limits	LEL	UEL
n/a		n/a	n/a

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.

Section 5 Reactivity Data

Stability	stable under normal storage and use	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 monoxide, oxides 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. Prolonged exposure in poorly ventilated area may cause headache, dizziness and respiratory tract irritation. Ingestion may cause gastrointestinal irritation, nausea and diarrhea.
Carcinogenicity	no
Medical Conditions Generally Aggravated by Exposure	none generally recognized
Emergency and First Aid Procedures	Eye: Check for and remove any contact lenses. Immediately flush with plenty of water. Get medical aid. Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water. Inhalation: Remove to fresh air. Administer artificial respiration if necessary. Get medical aid. Ingestion: Do not induce vomiting. Give 1-2 glasses of water to dilute stomach contents. Get medical aid. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Never give anything by mouth to an unconscious person.

Section 7 Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled	Stop leak if without risk. Prevent entry into drains or watercourses. Absorb with an inert material and put in an appropriate waste disposal.
Waste Disposal Method	Dispose of in accordance with local, state and federal environmental control regulations.
Precautions to Be Taken in Handling and Storing	Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Store in a cool well-ventilated area. Keep from freezing. Keep out of reach of children.

Section 8 Exposure Controls and Personal Protection

Engineering controls	Provide adequate ventilation. Local exhaust in addition to general room ventilation may be required 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. Launder contaminated clothing before reuse.
Work/Hygienic Practices	Do not store, use, and/or consume foods, beverages, tobacco products or cosmetics next to material. Wash hands and face carefully after work.

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