

# SAFETY DATA SHEET

Date Prepared : 05/22/2015

SDS No : Kamo Manufacturing Co. Inc.\_Frontier Finish

## Frontier Finish

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Frontier Finish

**GENERAL USE:** Seal and protect wood flooring.

**PRODUCT DESCRIPTION:** Waterbased Oil Modified Urethane Wood Finish

**CHEMICAL FAMILY:** Urethane Dispersion

#### DISTRIBUTOR

Kamo Manufacturing Co. Inc.

PO Box 1525

Augusta, GA 30903

**Customer Service:** 706-724-1488

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEM-TEL (Medical and Transportation):** 800-255-3924

**POISON CONTROL CENTER (Medical):** 800-222-1222

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Serious Eye Damage, Category 2A

Reproductive Toxicity, Category 1B

Target Organ Toxicity (Single exposure), Category 3 (Respiratory tract irritation)

#### GHS LABEL



Health  
hazard



Exclamation  
mark

**SIGNAL WORD:** DANGER

#### HAZARD STATEMENTS

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H360: May damage fertility or the unborn child through repeated inhalation exposure.

#### PRECAUTIONARY STATEMENT(S)

##### Prevention:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P281: Use personal protective equipment as required.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P261: Avoid breathing fume, gas, mist, vapors, or spray.

P271: Use only outdoors or in a well-ventilated area.

##### Response:

P308+P313: IF exposed or concerned: Get medical advice/ attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Storage:**

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

**Disposal:**

P501: Dispose of contents/container according to all local, state and Federal regulations.

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Pale yellow hazy liquid

**IMMEDIATE CONCERNS:** Causes severe eye irritation. May be armful if inhaled.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Contact causes severe eye irritation.

**SKIN:** May be mildly irritating with prolonged or repeated contact.

**SKIN ABSORPTION:** None

**INGESTION:** Large doses may cause nausea.

**INHALATION:** High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches)

**REPRODUCTIVE TOXICITY**

**REPRODUCTIVE EFFECTS:** Suspected of damaging fertility or the unborn child.

**TERATOGENIC EFFECTS:** No known significant effects or critical hazards.

**CARCINOGENICITY:** Not Established

**MUTAGENICITY:** No known significant effects or critical hazards.

**ROUTES OF ENTRY:** Eyes, skin, Inhalation.

**TARGET ORGAN STATEMENT:** Respiratory tract.

**CANCER STATEMENT:** WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

**SENSITIZATION:** Not Established

**WARNING CAUTION LABELS:** Irritant

**PHYSICAL HAZARDS:** None Expected.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Polyurethane Resin	25 - 30	TradeSecr
1-methyl-2-pyrrolidinone	1 - 5	872-50-4
Triethylamine	1 - 2	121-44-8
Water	65 - 75	7732-18-5

**COMMENTS:** If CAS number is "Tradeseccr", the specific chemical identity has been withheld as a trade secret.

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**INHALATION:** Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Severe burning sensation, tearing, redness, swelling.

**SKIN:** Prolonged contact may cause irritation marked by redness, slight burning sensation.

**SKIN ABSORPTION:** No known significant effects or critical hazards.

**INGESTION:** Nausea with large amounts.

**INHALATION:** Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

**CHRONIC EFFECTS:** See Section 11.

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** NA = Not Applicable

**GENERAL HAZARD:** None

**EXTINGUISHING MEDIA:** Not required. Water based material.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide from combustion

**EXPLOSION HAZARDS:** NA = Not Applicable

**FIRE FIGHTING PROCEDURES:** Use an extinguishing agent suitable for surrounding fire.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition products may include: Carbon dioxide, Carbon monoxide, nitrogen oxides.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.

**LARGE SPILL:** Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Avoid discharges into open waterways.

**LAND SPILL:** Avoid discharge to soil.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Close container after use.

**HANDLING:** Wear eye protection, rubber gloves when handling concentrate.

**STORAGE:** Store in closed container in an area inaccessible to children.

**STORAGE TEMPERATURE:** Store at ambient temperatures.

**STORAGE PRESSURE:** Store at ambient atmospheric pressure.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
Chemical Name		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
1-methyl-2-pyrrolidinone	TWA					10 [1]	40 [1]
Triethylamine	TWA	25	100	1			
	STEL			3			

**Footnotes:**  
1. USA. Workplace Environmental Exposure levels (WEEL)

**ENGINEERING CONTROLS:** Provide mechanical ventilation when used in confined areas, or areas with poor ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Safety glasses with side shields.

**SKIN:** Rubber or other chemical resistant gloves.

**RESPIRATORY:** A respirator is not needed under normal and intended conditions of product use.

**PROTECTIVE CLOTHING:** No special requirements.

**WORK HYGIENIC PRACTICES:** Wash with soap and water after handling. Do not eat, drink or smoke while using product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Mild amine

**ODOR THRESHOLD:** Not Established

**COLOR:** Light amber

**pH:** 7.5 to 9.0

**PERCENT VOLATILE:** >60

**FLASH POINT AND METHOD:** >100C (212F)

**FLAMMABLE LIMITS:** N/A

**AUTOIGNITION TEMPERATURE:** NA = Not Applicable

**VAPOR PRESSURE:** ~ 20 mm Hg at 20°C (68°F)

**VAPOR DENSITY:** > 1 Air = 1

**BOILING POINT:** 212° F; 100° C

**FREEZING POINT:** 32° F; 0° C

**MELTING POINT:** Not Available

**THERMAL DECOMPOSITION:** Not Available

**SOLUBILITY IN WATER:** ~ 70 %

**EVAPORATION RATE:** (Water =1) 1.0

**DENSITY:** ~ 8.51 at 20°C (68°F)

**SPECIFIC GRAVITY:** 1.02 grams/ml. at 20°C (68°F)

**VISCOSITY:** Slightly viscous.

**(VOC):** 17.570 % by weight

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur.

**STABILITY:** Stable under normal storage and use conditions.

**CONDITIONS TO AVOID:** Not Established

**HAZARDOUS DECOMPOSITION PRODUCTS:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**INCOMPATIBLE MATERIALS:** Strong acids. Strong basis. Strong oxidizing agents. Reducing agents.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
1-methyl-2-pyrrolidinone	4150	2200 to 4000	> 5100
Triethylamine	460 mg/kg (rat)	416 mg/kg (rabbit)	

**EYES:** Causes eye irritation.

**DERMAL LD<sub>50</sub>:** Not Established

**SKIN ABSORPTION:** Not Established

**ORAL LD<sub>50</sub>:** Not Established

**INHALATION LC<sub>50</sub>:** Not Established

**EYE EFFECTS:** Severe eye irritant.

**SKIN EFFECTS:** May irritate skin with prolonged or repeated contact.

**CHRONIC:** Not Established

**CARCINOGENICITY**

**IARC:** No listed substance

**IRRITATION:** Irritant

**SENSITIZATION:** No known significant effects or critical hazards.

**NEUROTOXICITY:** Central nervous system effects marked by dizziness, headache, nausea.

**GENETIC EFFECTS:** Not Established

**REPRODUCTIVE EFFECTS:** Suspected of damaging fertility or the unborn child.

**TARGET ORGANS:** Not Established

**TERATOGENIC EFFECTS:** Not Established

**MUTAGENICITY:** Not Established

**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** Not Established

**ECOTOXICOLOGICAL INFORMATION:** Not Established

**BIOACCUMULATION/ACCUMULATION:** Not Established

**AQUATIC TOXICITY (ACUTE):** Not Established

**CHEMICAL FATE INFORMATION:** Not Established

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Although not a hazardous waste, the discarding or disposal of this material should be done at a properly permitted facility in accordance with the regulations 40CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations.

**FOR LARGE SPILLS:** Consult with local and state authorities for large volume disposal.

**PRODUCT DISPOSAL:** Any method in accordance with local, state, and federal laws. Best method is to recycle or reuse for intended purpose.

**EMPTY CONTAINER:** Offer container for recycling, or dispose of in trash.

**RCRA/EPA WASTE INFORMATION:** NA = Not Applicable

**14. TRANSPORT INFORMATION**

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Liquid floor wax, not regulated.

**LABEL:** None

**AIR (ICAO/IATA)**

**SHIPPING NAME:** Liquid floor wax, not regulated.

**VESSEL (IMO/IMDG)**

**SHIPPING NAME:** Liquid floor wax, not regulated.

**15. REGULATORY INFORMATION**

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:** Health Hazard - Acute; Health Hazard -Chronic

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt.%	CAS
Triethylamine	1 - 2	121-44-8

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** No listed substance

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** Not yet Determined

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** All ingredients are listed on the TSCA Chemical Inventory.

**STATES WITH SPECIAL REQUIREMENTS**

Chemical Name	Requirements
1-methyl-2-pyrrolidinone	Pennsylvania Right to Know Substance Massachusetts Right to Know Substance New Jersey Right To Know Substance Rhode Island Right to Know Substance

**CALIFORNIA PROPOSITION 65:** WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Chemical Name	Wt.%	Listed
1-methyl-2-pyrrolidinone	1 - 5	● Developmental Toxicity

**CARCINOGEN:** Not yet Determined

**16. OTHER INFORMATION**

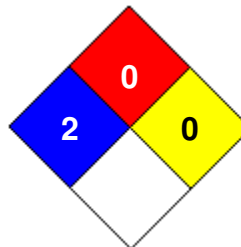
**PREPARED BY:** Regulatory Affairs Department

**Date Prepared:** 05/22/2015

**HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>2</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>	<b>B</b>

**NFPA CODES**



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