



Safety Data Sheet

Hybrid Varnish

1. Identification

Product identifier: Hybrid Varnish
Product code: SAM-505, SAM-535, SAM-565, SAM-595
Supplier Name: SamaN
660 Rue du Filtre
Victoriaville, Québec
G6T 0T6

Telephone: 819 751-2350
Emergency telephone number: 819-751-2350
Available hours : 8H-17H
Recommended use: Internal coating for bare wood
Restrictions on use: For indoor use only

2. Hazard identification

Hazard classification: DANGER

Product classification:



Reproductive toxicity-Category 1B.

Hazard statement(s): May damage fertility or the unborn child.

Precautionary statement(s)

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response: If exposed or concerned: Get medical advice/attention.



Safety Data Sheet

Hybrid Varnish

Disposal: Store locked up.

Storage: Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards: No other effects shown.

See toxicological information, section 11

3. Composition / Information on ingredients

No	CAS no	CAS name	% (W/W)
1	872-50-4	n-Methyl-2-pyrrolidone	.01 - 1%

4. First-aid measures

If swallowed, irritation, any type of overexposure or symptoms of overexposure occur during use of the product or persists after use, immediately contact a POISON CENTER, an EMERGENCY ROOM or a PHYSICIAN; ensure that the product safety data sheet is available.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.



Safety Data Sheet

Hybrid Varnish

Symptoms: Skin itching, redness of eyes and skin.

Effects (acute or delayed): May cause eyes and skin irritation.

Immediate medical attention and special treatment: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Specific hazards arising from the hazardous product : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, phosphorus oxides, metal oxide/oxides.

Special protective equipment and precautions for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



Safety Data Sheet

Hybrid Varnish

6. Accidental release measures

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Protective equipment and emergency procedures: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosionproof equipment. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Precautions for safe handling : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.



Safety Data Sheet

Hybrid Varnish

8. Exposure controls / Personal protection

No	CAS no	CAS name	IDHL mg/m3	TWA mg/m3	STEL mg/m3	CEIL mg/m3
1	1	872-50-4	n-Methyl-2-pyrrolidone	Not regulated	Not regulated	Not regulated

IDHL: Immediately Dangerous to Life or Health Concentrations

TWA : Time Weighted Average

STEL: Short -Term Exposure Limit

CEIL: Ceiling Limit

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyes: DO NOT WEAR CONTACT LENSES Wear anti-splash safety goggles.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties.

Respiratory: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Others: Not available.



Safety Data Sheet

Hybrid Varnish

9. Physical and chemical properties

Physical state: Liquid

Colour: Beige

Odour: Low odor

Odour threshold: Not available

pH: 8,3

Melting/Freezing point: 0°C (32°F)

Initial boiling point/boiling range: 100°C (212°F)

Flash point: Not applicable

Lower flammable/explosive limit: Not applicable

Upper flammable/explosive limit: Not applicable

Auto-ignition temperature: Not applicable

Evaporation rate: <1 (ether=1)

Vapour pressure: 17,54 mm Hg at 20 °C

Vapour density: < 1 (Air =1)

Relative density: 1,033 Kg/L

Solubility in water: Soluble

Partition coefficient - n-octanol/water: Not applicable

Decomposition temperature: Not applicable

Kinematic viscosity: 50,0 mm²/s (at 40 °C)

10. Stability and reactivity

Reactivity: Stable under recommended conditions of storage and handling.

Chemical stability: The product is chemically stable under normal conditions of use.

Possibility of hazardous reactions: No dangerous or polymerization reactions will not occur under normal conditions of use.

Conditions to avoid: Do not pierce or burn, even after use.

Incompatible materials: Strong acids and bases. Strong oxidizing agents. Finely divided metals (Ba, Be, Na, P, Al, Mg etc).

Hazardous decomposition products: Carbon monoxide and dioxide.



Safety Data Sheet

Hybrid Varnish

11. Toxicological information

No	CAS no	CAS name	(1) LD oral	(2) LD skin	(3) LD skin	(4) LC gases	(5) LC vapours	(6) LC dusts-mist
1	872-50-4	n-Methyl-2-pyrrolidone	3914	5000	8000	Not applicable	Not available	>5,1

(1) LD₅₀ oral rat mg/kg

(2) LD₅₀ skin rat mg/kg

(3) LD₅₀ skin rabbit mg/kg

(4) LC₅₀ inhalation rat ppmV 4h gases

(5) LC₅₀ inhalation rat mg/l 4h vapours

(6) LC₅₀ inhalation rat mg/l 4h dusts-mist

Routes of exposure: This product is absorbed through the respiratory tract, skin and gastrointestinal tract.

Symptoms: Skin itching, redness of eyes and skin.

Delayed and immediate effects: May cause eyes and skin irritation.

No	CAS no	CAS name	IARC	ACGIH	Mutagenicity	Effect on reproduction
1	872-50-4	n-Methyl-2-pyrrolidone	4	A5	The data do not allow for an adequate assessment of mutagenic effects.	The data do not allow for an adequate assessment of mutagenic effects.

Cancer classification under IARC (International Agency for Research on Cancer)

Group 1: carcinogenic to humans

Group 2A: probably carcinogenic to humans

Group 2B: possibly carcinogenic to humans

Group 3: not classifiable as to its carcinogenicity to humans

Group 4: probably not carcinogenic to humans

Cancer classification under ACGIH : American Conference of Governmental Industrial Hygienists



Safety Data Sheet

Hybrid Varnish

Group A1: confirmed human carcinogen

Group A2: suspected human carcinogen

Group A3: confirmed animal carcinogen with unknown relevance to humans

Group A4: not classifiable as a human carcinogen

Group A5: not suspected as a human carcinogen

12. Ecological information

No	CAS no	CAS name	%	Persistent	Bio-accumulation	Aquatic ecotoxicity
1	872-50-4	n-Methyl-2-pyrrolidone	2.55	No	No	No

No	CAS no	CAS name	%	Ecotoxicity for aquatic organisms-Short term	Ecotoxicity for aquatic organisms-Long term	Environmental effects
1	872-50-4	n-Methyl-2-pyrrolidone	2.55		No known adverse effect to aquatic life.	No known adverse effect to the environment.

13. Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.



Safety Data Sheet

Hybrid Varnish

14. Transport information

	TDG	DOT	IMDG	IATA
UN number				
Proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard class(es)				
Packing group				

Other information

Marine pollutant : No

IMDG: Not applicable

Exemption for limited quantity: Not applicable

Special precautions: Not applicable

Others exemptions: Not applicable

15. Regulatory information

All ingredients are listed on the DSL/NDSL or in compliance with the inventory.

All ingredients are listed on TSCA or in compliance with the inventory.

All ingredients are listed on the EINECS or in compliance with the inventory.

The customer is responsible for determining the PPE (personal protection equipment) code for this material.

The classification of the product and the SDS were developed in accordance with HPR.



Safety Data Sheet

Hybrid Varnish

16. Other information

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Version: 1

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