



MATERIAL SAFETY DATA SHEET

Section I - Product and Manufacturer's Identity

POLYURETHANE HIGH GLOSS ENAMEL – WHITE

Manufacturer's Name: Somay Products, Inc.	Product Number: 237-01
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Section II - Hazardous Ingredient/Identity Information

Hazardous Components	CAS #	OSHA PEL	ACGIH TLV	PER CENT BY WEIGHT
Mineral Spirits	8052-41-3	500 ppm (TWA)	100 ppm (TWA)	40-60
Titanium Dioxide*	13463-67-7	10 mg/m ³ (Total Dust)	10 mg/m ³ (TWA)	10-25

* This product contains pigments classed by ACGIH as nuisance dust. Exposures to spray mist or sanding dusts should be controlled to below 10 mg/m³ through usage of NIOSH/MSHA TC-23C or equivalent approved dust filter respirators.

Section III – Physical/Chemical Characteristics

Boiling Range: 300°F-386°F	Melting Range: Not applicable	Specific Gravity (Water=1): 1.303
Vapor Density: Heavier than air	Vapor Pressure: 2.0 mmHg. @ 68° F	Evaporation Rate (Butyl Acetate=1): Slower
Coating VOC: 347 g/L or 2.91 lbs/gal	Material VOC: 347 g/L or 2.91 lbs/gal	Solubility in water: The product is immiscible with water
Appearance and Odor: White Viscous Liquid with aromatic odor		

Section IV - Fire and Explosion Hazard Data

Flash Point: 42° C or 108° F	Flash Point Method: Pinsky Martens Closed Cup
Flammable limits in air by volume (Lower): 0.5%	
Flammable limits in air by volume (Upper): 6.0%	
Extinguishing Media: Use foam, Carbon Dioxide and Dry Chemical.	
Special Fire Fighting Procedures: Wear self-contained breathing apparatus with all appropriate turn-put gear and chemical resistant protective equipment. Water may be ineffective but may be used to cool fire exposed containers. Smother to exclude air.	
Unusual Fire and Explosion Hazards: Vapors can travel to a source of ignition and flash back. Heated material can form flammable or explosive vapors with air. Closed containers may rupture via pressure build up when exposed to fire or extreme heat.	

Section V - Reactivity Data

Stability: This material is considered stable.
Conditions to Avoid: Avoid build up of vapors and definitely avoid heat, open flames and sparks.
Incompatible Materials: Strong oxidizing agents.
Hazardous Decomposition or Byproducts: If by fire, Carbon Monoxide and Carbon Dioxide.
Hazardous Polymerization: Will not occur.

Section VI - Health Hazard Data (Acute & Chronic)

Inhalation Health Risks and Symptoms of Exposure: Breathing vapor or mist is highly probable. Small amounts during normal handling are not likely to produce harmful effects. However, large amounts can be harmful. Symptoms include irritation of nose, throat and lungs promoting headache, nausea, drowsiness and dizziness sometimes with slow respiration.
Eye Contact Health Risks and Symptoms of Exposure: The solvents within this material can produce stinging, redness, halo, tearing and swelling of the eyes.
Skin Absorption Health Risks and Symptoms of Exposure: Incidental contact may produce mild skin irritation. Prolonged or repetitive contact may dry skin with symptoms of redness, burning, cracking of the skin plus skin burns leading to dermatitis.

Ingestion Health Risks and Symptoms of Exposure:

Very small amounts during normal handling should not cause harmful effects. Large amounts may be harmful producing Gastro-Intestinal irritation and could possibly enter the lungs during swallowing or vomiting whereby lungs inflammation or other lung injury could occur. Solvents constituting this product have been associated with liver and kidney damages. Ingestion of alcohol even hours after exposure will intensify the damage.

Carcinogenicity: NTP? No IARC MONOGRAPHS? Yes OSHA REGULATED? No

Medical Conditions generally aggravated by exposure:

Dermatitis or lung disorders.

Emergency and First Aid Procedures:

For eyes: If symptoms develop, remove individual from exposure area. Flush with copious amount of water for 15 minutes while holding eyelids open. If symptoms persist, seek immediate medical attention.

For skin: Remove clothing and launder. Wash affected skin with soap and water. If symptoms persist seek immediate medical attention.

For ingestion: Seek immediate medical attention. **Do not induce vomiting.** This product contains an aspiration hazard. Maintain head below hips to prevent aspiration.

For inhalation: If symptoms develop, remove individual to fresh air. If symptoms persist, seek immediate medical attention. If breathing is difficult, administer oxygen and keep individual warm and quiet.

Note to Physicians:

Acute massive exposure to solvents contained in the product can cause transient haematuria and albuminuria and sometimes cardiac arrhythmias.

Section VII - Precautions for Safe Handling and Use

Steps to be taken for Material Spilled or Released:

Contain spillage by stopping at source and dike to prevent spreading, and then collect with non-combustible absorbent material, e.g. sand, sawdust, kitty litter, earth, diatomaceous earth, vermiculite and place in container for disposal according to local/national regulations.

Waste Disposal Method:

This product may be classified as a hazardous waste by local, state and federal regulations for the purpose of disposal. Dispose of this material in accordance with local, state and federal regulations. Do not flush into surface water or sanitary sewer system. Prevent discharge to streams, lakes or other bodies of water. Incinerate this material at a facility that complies with local, state and federal regulations and do not burn in closed containers.

Precautions to be taken in handling and storing:

Avoid all ignition sources including sparking tools while in use and until all vapors have dissipated. Metal containers larger than 1 gallon require grounding/bonding procedures. Containers may be hazardous when empty because of product residue.

Keep containers sealed and store in a cool, dry and well ventilated place away from ignition sources and incompatible materials. Limit indoor storage to approved areas equipped with automatic sprinklers.

Other Precautions:

Keep out of reach of children. Do not take internally or intentionally inhale concentrated vapors. Transfer only to appropriate labeled containers.

Section VIII - Control Measures

Ventilation and Engineering Controls:

Use explosion-proof local exhaust ventilation with a minimum capture velocity of 100 ft/min (0.5 m/sec) at the point of vapor evolution. Always provide mechanical ventilation of confined spaces.

Protective Gloves	Eye Protection	Respiratory Protection
Wear chemical resistant gloves such as Polyvinyl alcohol or nitrile-butyl rubber gloves when handling the material.	Wear chemical resistant goggles with side-shields.	Wear a properly fitted MSHA/NIOSH approved respirator in confined areas if airborne concentrations are not kept below recommended exposure limits.
<p>Other Protective Clothing: Complete body covering preferably impervious to solvents to protect from drip or splatter.</p>		<p>Other Protective Equipment: Facilities storing this product should be equipped with an eyewash station and a safety shower.</p>
<p>Safe Work Practices: Avoid build-up of vapors and inhalation especially when transporting as vapors can impair driving ability.</p>		
<p>Safe Hygienic Practices: Wash hands after handling and before eating, drinking or smoking. Launder contaminated clothing before re-use.</p>		

Section IX - Transportation Data

DOT:

Paint or Paint Related Material, 3, UN1263, Packing Group III, Guide 128

ICAO/IATA:

Paint or Paint Related Material, 3, UN1263 Packing Group III, Guide 128

IMDG/IMO:

Paint or Paint Related Material, 3, UN1263, Packing Group III, IMCO Class 3.2

Section X - Other Information – (Hazard Rating)

	Health	Fire	Reactivity
HMIS	1	2	0

Disclaimer

The information provided in this Safety Data Sheet is accurate to the best of our knowledge. The information given is designed as a guideline for safe handling, storage, transportation, disposal and release, and to some aspect to assist medical personnel. This should not be regarded as a warranty or quality specification. The information only relates to the material as supplied and any adulteration such as thinning or other material combination not specified in Somay's Technical or Product Data negates all liability to Somay Products, Inc.