

SAFETY DATA SHEET

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SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: Gamblin Conservation Colors Pigmented Wax Resin
Product Description: Pigment, wax, and resin mixture, in stick form
Intended Use: Fine art restoration and conservation by trained professionals

COMPANY

Company Name: Gamblin Conservation Colors
Company Address: 2734 SE Raymond Street Portland, OR 97202 USA
Company Phone: 503-235-1945
Emergency Phone: Local Emergency Room

SECTION 2: HAZARDS IDENTIFICATION

Physical state : Solid.
Odor : Little or none.
Color : White to amber.
OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
Emergency overview : Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations. Heated material can cause thermal burns. Avoid prolonged contact with eyes, skin and clothing. Heated material can cause thermal burns.
Routes of entry : Dermal contact. Eye contact. Inhalation.
Potential acute health effects : No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation : : None known.
Ingestion : : None known.
Skin : : None known.
Eyes : : None known.

See toxicological information (section 11)



Additional information

If this product is heated, avoid inhalation of fumes. Caution should be taken to prevent generation of fumes or mists. Paraffin wax fumes are considered hazardous according to the OSHA hazard communication standard. This product has a low vapor pressure and is not expected to present a fume inhalation hazard at ambient temperatures

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Name</u>	<u>CAS number</u>
Hydrotreated microcrystalline wax	64742-60-5
1-Propene, polymer with ethene	9010-79-1
Ethene homopolymer	9002-88-4
Beeswax	8012-89-3
Laropal A-81	

SECTION 4: FIRST AID MEASURES

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Skin contact: Heated material can cause thermal burns. For skin contact with the hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate the heat. Cover the affected area with sheeting or gauze and get immediate medical attention. No attempt should be made to remove material from the skin or to remove contaminated clothing as the damaged flesh can be easily torn. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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 if symptoms occur.

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 if symptoms occur.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:
dry powder, foam

Unsuitable extinguishing media for safety reasons: carbon dioxide



Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapors

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of. For large amounts:

Contain with dust binding material and dispose of. Avoid raising dust.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, and drinking.

CONDITIONS FOR SAFE STORAGE

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place.
Keep container closed when not in use.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredients:	List name	ppm	mg/m ³	Other	ppm	mg/m ³	Other	ppm	mg/m ³	Other	Notations
Hydrotreated microcrystalline wax	US ACGIH	-	2	-	-	-	-	-	-	-	[a]
	OSHA PEL 1989	-	2	-	-	-	-	-	-	-	[a]
1-Propene, polymer with ethene	US ACGIH	-	10	-	-	-	-	-	-	-	[b]
	US ACGIH	-	3	-	-	-	-	-	-	-	[c]
	OSHA PEL	-	5	-	-	-	-	-	-	-	[d]
	OSHA PEL	-	15	-	-	-	-	-	-	-	[e]
Ethene homopolymer	US ACGIH	-	10	-	-	-	-	-	-	-	[b]
	US ACGIH	-	3	-	-	-	-	-	-	-	[f]
	US ACGIH	-	5	-	-	-	-	-	-	-	[d]
	US ACGIH	-	15	-	-	-	-	-	-	-	[e]

Form: [a]Fume [b]Inhalable [c]Respirable [d]Respirable fraction [e]Total dust [f]Respirable dust

Advice on system design:

Provide local exhaust ventilation to control dusts/mists.

Personal protective equipmentRespiratory protection:

Wear a NIOSH-certified (or equivalent) particulate respirator.

Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields. Wear face shield if splashing hazard exists.

Body protection:

Apron

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

Physical State: Solid sticks
Color: Varies
Odor: Faint odor
Odor Threshold: wax
Melting Range: 80-95 C
Decomposition Point: 190 C

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Boiling Point: NA
Flash point: >176 C
Flammability: Not highly flammable
Vapor Pressure: NA



Density: Varies
Evaporation Rate: N/A
Solubility in Water: Insoluble in cold water and hot water
Solids by Weight: Varies
Tap Density NA
VOC Content: ND
Molecular Weight: NA **Viscosity:** NA

SECTION 10: STABILITY AND REACTIVITY

Chemical stability : The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Hazardous polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid : No specific data.

Materials to avoid: Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Conditions of reactivity : Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. As with most solid particulate organic materials, high concentrations of dusts from this product suspended in air are an explosion hazard in the presence of sparks, flames, and heat. Do not allow dust to accumulate on equipment and surfaces where this product is used. In the National Fire Protection Association (NFPA) Code 499, a "combustible dust" is any finely divided solid material 420 microns or less in diameter that presents a fire or explosion hazard when dispersed in air.



SECTION 11: TOXICOLOGICAL INFORMATION

Primary routes of exposure

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethene homopolymer	LD50 Oral	Rat	>3000 mg/kg	-

Carcinogenicity

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Ethene homopolymer	-	3	-	-	-	-

Chronic toxicity Remarks

Hydrotreated microcrystalline wax: Not available.
 1-Propene, polymer with ethene: Not available.

Ethene homopolymer:

An ethene homopolymer (polyethylene) is a component of this product. Polyethylene in its solid form is not expected to have any significant toxicological effect, except intestinal blockage if swallowed. The only chronic effects seen in humans has been with exposure to polyethylene pyrolysis products. Workers exposed to these pyrolysis products had symptoms of eye, mucous membrane, and skin irritation, headaches, nausea, coughing, shortness of breath, and flu-like complaints (Robinson et al, 1982), indicative of polymer fume fever. Rats after inhaling polyethylene dust developed mild inflammatory changes in the lungs (Kochetkova et al, 1971). Prolonged inhalation of thermal degradation products from polyethylene caused neurological effects in rats (Zitting & Savolainen, 1979)

SECTION 12: ECOLOGICAL INFORMATION

Aquatic ecotoxicity

Conclusion/Summary : Not available.

Biodegradability

Conclusion/Summary : Not available.

Additional information

This product would be expected to biodegrade slowly, depending upon the conditions to which it is exposed. Under OECD Method 310D, the biodegradability is less than 25% after five days.

Ecotoxicological data on analogous hydrocarbons demonstrates that the hydrocarbon in this product has a low aquatic toxicity to fish, algae, and daphnia. Under OECD guidelines this product is classed as inherently biodegradable. The product is unlikely to bioaccumulate due to the carbon number being >14. Classification according to German Umweltbundesamt.de is "nwg".

Ecotoxicological data on analogous polymeric materials demonstrates that the polymers in this product have a low aquatic toxicity to fish, algae, and daphnia. Under OECD guidelines this product is classed as inherently biodegradable. The product is unlikely to bioaccumulate due to the large polymeric nature of the polymers. Classification according to German Umweltbundesamt.de is "nwg"



Section 13: Disposal considerations

Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations.

Container disposal:

Dispose of in accordance with national, state and local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA: None

Section 14: Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

SECTION 15: REGULATORY INFORMATION

HCS Classification

U.S. Federal regulations

: Not regulated.

: United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

CERCLA: Hazardous substances.: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112

regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found.



Section 16: Other information

Label requirements: Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations. Heated material can cause thermal burns

The information and recommendations contained herein are, to the best of Gamblin's knowledge and belief, accurate and reliable, but it is not warranted to be. You can contact Gamblin to ensure that this document is the most current available. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use and it is the user's responsibility to carefully read the product label and follow instructions for safe use of the product.