

SECTION 1 – Identification of the Substance/Mixture and of the Company/Undertaking**1.1 Product identifiers**

Product Name: TIGERLAC™ 5050
Product Class: Dewaxed Bleached Shellac
Manufacturer's I.D.: Tigerlac 5050
CAS Number: 9000-59-3
Index Number: N/A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: Ingredient in wood coatings and glazes, flexographic printing inks, hat proofing, hair sprays, mold-release agents, leather finishing, fruit coatings, and special products. For industrial use only.

Uses Advised Against: N/A

1.3 Details of the Supplier of the safety data sheet

Company: Kane International Corporation
411 Theodore Fremd Avenue
Rye, NY 10580
Phone: (914) 921-3100

1.4 Emergency telephone number

For Emergencies Involving a Spill, Leak, Fire, Exposure, or Accident
Contact CHEMTREC (800) 424-9300

SECTION 2 – Hazards Identification**2.1 Classification of the Substance or Mixture**

OSHA Hazards: HNOC: Possible combustible dust hazard

Overexposure targets the following organs: Not applicable

Classification according to OSHA 29 CFR 1910.1200 and Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Hazards not otherwise classified

See Sections 15.3 and 15.4 for additional comments concerning the classification of this product.

2.2 Label Elements

GHS Label Elements, including precautionary statements:

Pictogram None

Signal Word Warning

Hazard Statement(s)

None applicable This product is not classified as dangerous according to OSHA definitions or statutory EC-Directives.

Precautionary Statement(s)

None As with any industrial material, avoid skin or eye contact and wash thoroughly after handling.

Supplemental Hazard Information (EU)

None

2.3 Other Hazards

May form combustible dust concentrations in air.

The formation of dust is possible when handling and working with this product. If handled in a manner which generates a dust, maintain good housekeeping to prevent the accumulation of dust.

SECTION 3 – Composition / Information on Ingredients

3.1 Substances

Formula: Mixture, proprietary

Molecular Weight: Mixture, proprietary

3.2 Mixtures

Description of the mixture:

Natural shellac resin

Summary of Information Included:

All hazardous constituents with a concentration of 1% or greater, or 0.1% or greater if the constituent is a PBT/vPvB substance or otherwise required by the OSHA Hazard Communication Standard, are listed in Section 3.2.1 below. Other (non-hazardous) ingredients are listed in Section 3.2.2 for the purpose of accounting for 100% of the mixture. This is the only section of the SDS that lists non-hazardous constituents.

Information listed as “proprietary” is being withheld as a trade secret or confidential business information. Regardless, the properties and effects of all known hazardous ingredients are included as applicable in each section of this Safety Data Sheet.

The classification hazard(s) of each of the hazardous ingredients is provided in Section 3.2.3, along with the reason(s) for listing the chemical as hazardous. Refer to Sections 15.3 and 15.4 for additional information concerning any pending registrations or the justification for the classification.

3.2.1 Hazardous Ingredients					
<u>Ingredient</u>	<u>CAS #</u>	<u>EC #</u>	<u>Index #</u>	<u>Wt %</u>	<u>Synonyms</u>
Natural shellac resin	9000-59-3	232-549-9	--	100.0%	

3.2.2 Other (Non-Hazardous) Ingredients					
<u>Ingredient</u>	<u>CAS #</u>	<u>EC #</u>	<u>Index #</u>	<u>Wt %</u>	<u>Synonyms</u>
Not applicable					

3.2.3 Classification *			
<u>Ingredient</u>	<u>CAS #</u>	<u>Reason Listed</u>	<u>Classification per Regulation (EC) No. 1272/2008 (CLP)</u>
Natural shellac resin	9000-59-3	**	Not classified as hazardous

- 1 Substance is classified with a health or environmental hazard
- 2 Substance has a workplace exposure limit
- 3 Substance meets the criteria for PBT per Regulation (EC) No. 1907/2006, Annex XIII
- 4 Substance meets the criteria for vPvB per Regulation (EC) No. 1907/2006, Annex XIII

* See Sections 15.3 and 15.4 for a discussion of the classification determination and European Union requirements.

** The formation of dust is possible when working with this product. High concentrations of dust may be combustible under certain circumstances.

SECTION 4 – First Aid Measures

4.1 Description of first aid measures

Inhalation Overexposure: Remove to fresh air. Get medical attention if irritation develops or persists.

Eye Contact: Flush with water as a precautionary measure. Get medical attention if irritation develops or persists.

Skin Contact: Wash affected skin with soap and water. Remove and wash contaminated clothing.

Ingestion: Have victim rinse mouth out with water, and then drink sips of water to remove taste from mouth. Never give anything by mouth to an unconscious person. Get medical attention as needed.

4.2 Most important symptoms and effects, both acute and delayed

Mechanical irritant – dust or particulate.

4.3 Indication of any immediate medical attention and special treatment needed

No data available on other exposure. Treat symptomatically.



SECTION 5 – Firefighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Organic material which supports combustion if ignited.

5.3 Advice for firefighters

Special Fire Fighting Procedures:

If high levels of dust are present, take precautions appropriate for combustible dust.

Special Protective Equipment

Fire fighters should wear self-contained breathing apparatus and complete personal protective equipment operated in a pressure demand or other positive pressure mode.

SECTION 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid formation of dust. Wear appropriate protective clothing to prevent unnecessary skin contact and to avoid inhalation of dust or particles. Use non-sparking tools and equipment.

6.2 Environmental precautions

Prevent runoff from entering drains, sewers, streams or other waterways.

6.3 Methods and material for containment and cleaning up

Ventilate the spill area. Sweep up or shovel and place in a closed container.

Notification and reporting

Spills or releases to the environment may be reportable. See Section 15 for United States federal reporting requirements. For all other locations, consult appropriate regulations to determine possible reporting requirements prior to using this product.

SECTION 7 – Handling and Storage

7.1 Precautions for safe handling

Avoid handling in a manner which generates a dust. Avoid contact with skin and eyes. Avoid inhalation of particulate or dust. Use in cool, well-ventilated area. Maintain good housekeeping to minimize any accumulation of dust.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool location. Keep away from excessive heat and open flames.

It is recommended that the product be stored at temperatures <20 degrees C (55 degrees F). Shellac will block under conditions of high heat/pressure.

7.3 Specific end uses

Coatings

SECTION 8 – Exposure controls / personal protection

8.1 Control parameters

Hazardous Ingredients			Workplace Control Parameters ¹			
<u>Ingredient</u>	<u>CAS #</u>	<u>Wt %</u>	<u>OSHA PEL</u>	<u>OSHA STEL</u>	<u>ACGIH TWA</u>	<u>ACGIH STEL</u>
Natural shellac resin (as nuisance dust)	9000-59-3	100.0%	15 mg/m ³ (total) and 5 mg/m ³ (respirable)	N/A	10 mg/m ³ (total) and 3 mg/m ³ (respirable)	250 ppm

¹ Workplace control parameters may vary. Please consult the listing for the country where this product will be used to determine the relevant exposure limits.

"N/A" = Information is Not Available

"C" = Ceiling limit value

8.2 Exposure Controls

Appropriate engineering controls

Use local exhaust if necessary to maintain concentrations well below exposure limits. Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the work day.

Personal protective equipment

Eye Protection: Safety glasses with protective shields or goggles..

Skin (Hand) Protection: For operations where contact can occur, wear impervious gloves to avoid unnecessary skin contact. Review published literature and glove manufacturer data to determine suitable gloves. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for anticipated use conditions.

Skin (Body) Protection: Wear impervious clothing as necessary to prevent unnecessary skin contact.

Respiratory Protection: Not required under normal circumstances. If necessary, wear an appropriate dust respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Other Protective Equipment: For operations where contact can occur, a safety shower and eye wash facility should be available.

SECTION 9 – Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical State: Solid granules

Form: Solid

Color: Pale yellow

Odor: No data available

Odor Threshold: Not determined

pH: No data available

Melting Point: 65-75°C (149-167°F)

Boiling Range: Not applicable

Flash Point: Not applicable

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Lower Explosion Limit (LEL): No data available

Upper Explosion Limit (LEL): No data available

Vapor Pressure at 20 °C: No data available

Vapor Density: No data available

Density (Specific Gravity): 8.17 ± 0.15 lbs/gallon (0.980 g/mL)

Solubility in Water: Shellac is completely soluble with the addition of alkali, amine or solvent.

Partition Coefficient (n-octanol / water): No data available

Dynamic Viscosity: Not applicable

Kinematic Viscosity: Not applicable

Explosive Properties: No data available

Oxidizing Properties: No data available

Other Information

Evaporation Rate: No data available

Percent Volatile by Weight: Not applicable

VOC: Not applicable

9.2 Other safety information

No data available

SECTION 10 – Stability and reactivity

- 10.1 Reactivity:** None known
- 10.2 Chemical stability:** Stable
- 10.3 Possibility of hazardous reactions:** Hazardous polymerization will not occur
- 10.4 Conditions to avoid:** Excessive heat, sparks, or open flame.
- 10.5 Incompatible materials:** Strong oxidizing agents.
- 10.6 Hazardous decomposition products:** Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

SECTION 11 – Toxicological information

11.1 Information on toxicological effects

ACUTE TOXICITY:

LD₅₀ (Oral, Rat)
> 5,000 mg/kg

LC₅₀ (Inhalation, Rat)
No data available

Irritation (Skin, Rabbit)
> 10,000 mg/kg

EFFECTS OF OVEREXPOSURE

Inhalation: Not expected to occur. If dust is generated during handling, minor respiratory irritation may occur.

Skin Contact: Not expected to be hazardous.

Eye Contact: Contact may cause slight irritation.

Ingestion: No data available.

Medical Conditions Prone To Aggravation By Exposure: Not applicable.

Primary Routes of Entry: Not applicable.

Carcinogenicity: NTP (Known): No; NTP (Anticipated): No; IARC Category: No; OSHA: N/A

SECTION 12 – Ecological information

12.1 Toxicity

No information is available concerning ecological data for this product.

12.2 Information on toxicological effects: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No data available

12.5 Results of PBT and vPvB assessment: No data available

12.6 Other adverse effects: No data available.

SECTION 13 – Disposal considerations

13.1 Waste treatment methods

General information

Dispose of according to all applicable local, regional and national laws or regulations. Use appropriately licensed disposal services to manage waste or unused product.

RCRA (United States) INFORMATION:

Since this product is not sold as waste, we have not tested it as a waste. Based on our knowledge of the product, its raw materials and processes employed during its manufacture, we believe that this product would not be considered to be a RCRA waste. We recommend that you carry out your own tests and evaluations prior to discarding any materials and that any waste is disposed of in accordance with all applicable federal, state or provincial, and local regulations

European Waste Codes:

Since this product is not sold as waste, we have not tested it as a waste. We recommend that you carry out your own tests and evaluations prior to discarding any materials and that any waste is disposed of in accordance with all applicable national, state or provincial, and local regulations

SECTION 14 – Transportation information (not meant to be all inclusive)

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult the appropriate regulation(s) for information specific to the shipment to be made.

US Department of Transportation (DOT)

DOT Shipping Name: Not regulated
 DOT Hazard Class: N/A
 DOT UN/NA Number: N/A
 DOT Label(s): None
 Packing Group: N/A

Transport Canada Transportation of Dangerous Goods (TDG)

Shipping Name and Description: Not regulated
 UN Number: N/A
 Class: N/A
 Packing Group: N/A

IATA

Shipping Name and Description: Not regulated
 UN Number: N/A
 Class: N/A
 Packing Group: N/A
 Subrisk: N/A
 Inhalation Packing Group I: No

SECTION 15 – Regulatory information (not meant to be all inclusive)**15.1 UNITED STATES**

TSCA [Toxic Substances Control Act]: This product complies with all TSCA inventory requirements.

SARA Section 313: *This product contains the following chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Response Act of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.*

<u>Component</u>	<u>CAS#</u>	<u>Wt %</u>
No regulated components		

SARA Section 311 and 312:

SARA Section 311 and 312 hazard classification(s) for this product are listed below.
 None

SARA Section 302 and 304:

This product contains the following Extremely Hazardous Substances (EHS) subject to the emergency planning and release reporting requirements of Sections 302 and 304 of the Emergency Planning and Community Response Act of 1986 and of 40 CFR 355:

No listed chemicals

CERCLA Information: Releases to air, land, or water which exceed the reportable quantity must be reported to the National Response Center (800-424-8802).

This product contains the following chemical(s) subject to CERCLA reporting requirements:

<u>Component</u>	<u>CAS#</u>	<u>RQ</u>	<u>Wt %</u>
No listed components			

CALIFORNIA PROP - 65

This product contains the following ingredient(s) known to the state of California to cause cancer, birth defects or other reproductive harm:

<u>Component</u>	<u>CAS#</u>	<u>Amount</u>
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None known to be present

Additional Right-To-Know Composition Information

This product contains the following ingredients which appear on other hazardous substance or ingredient disclosure lists.

<u>Component</u>	<u>CAS#</u>	<u>Wt %</u>	<u>Lists</u>
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None known to be present

CN=Canadian Ingredient Disclosure List **MA1**=Massachusetts Hazardous Substances List **MA2**=Massachusetts Extraordinary Hazardous Substances List **NJ1**=New Jersey Workplace Hazardous Substances List **NJ2**=New Jersey Special Health Hazards List (NJ2 Category) **NL**=Not listed, Concentration Based Disclosure **PA1**=Pennsylvania Hazardous Substances List **PA2**=Pennsylvania Special Hazardous Substances List

15.2 CANADA

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Domestic Substances List (DSL) Status: All components of this product are included on the Canadian DSL or NDSL lists.

15.3 EUROPEAN UNION

This safety datasheet has been prepared according to the requirements of Regulation (EC) No. 1907/2006 and 1272/2008.

15.4 EVALUATION OF HAZARDS

Procedure used to derive the classification:

The known data for the for the hazardous constituents listed in Section 3 was evaluated to classify the product in accordance with the methods in 29 CFR 1910.1200, Appendices A and B and CLP Annex I, Part 3 and Part 4.

SECTION 16 – Other information

Additional Hazard Classifications:

HMIS CLASSIFICATION

Health hazard	0
Flammability	0
Physical hazard	0
Protective equipment	B

NFPA RATING

Health hazard	0
Fire	0
Reactivity hazard	0

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Disclaimer:

To the best of our knowledge the information contained herein is accurate. However no liability is assumed for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein we cannot guarantee that these are the only hazards that exist.
