



Nobody knows Shellac like we do!

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**Safety Data Sheet**  
**OSHA-DIRECTIVE NUMBER:CPL02-02-079 Hazard**  
**Communication Standard (HCS 2012)**

**1 Identification**

- **Product identifier**
- **Trade name:** Shellac
- 
- **CAS Number:**  
9000-59-3
- 
- **EC number:**  
232-549-9
- 
- **Application of the substance / the mixture**
  - Industrial use, Use as a Coating Agent.

**2 Hazard(s) identification**

- **Classification of the substance or mixture**  
The substance is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements**
- **Hazard pictograms** No pictogram
- **Signal word** No signal word
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable

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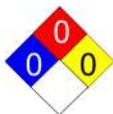
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- **Classification system:**
- **NFPA ratings (scale 0- 4)**

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Health =0  
Fire=0  
Reactivity= 0

- **HMIS-ratings(scale0-4)**



HEALTH 0 Health =0  
FIRE 0 Fire=0  
REACTIVITY0 Reactivity =0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** The substance is not PBT.
- **vPvB:** The substance is not vPvB.

### 3 Composition/ information on ingredients

- **Chemical characterization:**
- **Substances**
- Name of substance: Shellac
- EC number : 232-549-9
- CAS number : 9000-59-3

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**
  - Move out of dangerous area
  - Take affected persons out into the fresh air.
  - Do not leave the victim unattended.
- **After inhalation:** If breathed in, move out of affected area and supply fresh air.
- **After skin contact:**
  - Immediately wash with water and soap and rinse thoroughly.
  - Remove contaminated clothing.
  - Wash clothing before use.
- **After eye contact:**
  - Immediately flush eyes with plenty of water.
  - Check and remove contact lenses if present and easy to do.

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· **After swallowing:**

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Do not induce vomiting.

Immediately rinse mouth and provide fresh air.

Drink plenty of water.

· **Information for doctor:** Treat symptomatically and supportively.

· **Most important symptoms and effects, both acute and delayed.**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5 Fire-fighting measures**

· **Extinguishing media**

· **Suitable extinguishing agents:** Foam, carbon dioxide (CO<sub>2</sub>), powder, water spray.

· **For safety reasons unsuitable extinguishing agents:** Do not use water directly.

· **Special hazards arising from the substance or mixture.**

May produce carbon mono-oxide and carbon dioxide.

· **Advice for fire fighters**

· **Protective equipment:** Wear self-contained breathing apparatus for firefighting if necessary.

· **Additional information**

High temperatures can provoke high pressures inside the closed packages.

**6 Accidental release measures**

· **Personal precautions, protective equipment and emergency procedures**

Keep unprotected persons away.

Ensure adequate ventilation

Avoid breathing vapor or mist.

Avoid coming in contact with the substance or handling containers without adequate protection.

Use the personal protective equipment.

Use a respirator in the event of emissions/spillage of large quantities.

Eliminate all sources of ignition.

· **Environmental precautions:**

Spillages should be contained by use of sand or another inert material. Avoid penetration in the sewage system and surface water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

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**Reference to other sections**

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- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

**7 Handling and storage**

**Handling:**

**Precautions for safe handling**

- Do not eat, drink or smoke when handling.
- Provide sufficient air exchange and / or exhaust in work rooms. Avoid contact with skin and eyes.
- Take precautionary measures against static discharges. Avoid breathing vapors.
- Precaution should be taken to prevent material from splashing into the eyes and skin.
- Wear protective clothing and eye goggles.

**Information about protection against explosions and fires:**

- Normal measures for preventive fire protection.

**Conditions for safe storage, including any incompatibilities.**

- Store in a cool, dry, well-ventilated area way from incompatible substances.

**Storage:**

**Requirements to be met by storerooms and receptacles:**

- Use only receptacles specifically permitted for this substance/product.
- Store only in the original Packing.
- Store in tightly sealed and preferably full containers, protect from light. Check quality before use if stored for more than 18 months.

**Information about storage in one common storage facility:**

- Store away from acid, alkaline and strong oxidizing agents.

**Further information about storage conditions:**

- Keep protected from light.
- Ambient/ 10-30°C(50-85°F) Dry, well ventilated, preferably full, hermetically sealed.

**Specific end use(s)**

- Coatings.

**8 Exposure controls/ personal protection**

- Additional information about design of technical systems:** No further data; see item7.

**Control parameters**

- Components with limit values that require monitoring at the workplace:**

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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Handle in accordance with good industrial hygiene and safety practice.

- Keep away from food stuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.

· **Breathing equipment:**

Under normal use conditions, no respiratory protection should be needed. However, if discomfort is experienced, use an approved air-purifying respirator.

· Suitable respiratory protective device recommended.

· **Protection of hands:**



Protective gloves

· Use gloves when handling substance in open systems. Inspect gloves prior to use. Train operators for proper use. If only incidental exposure is expected: (work without direct contact to substance) use gloves tested according to EN 16523- 1/ASTM F739 or equivalent local standard breakthrough times at least 10 minutes, tested for chemicals indicated in chapter 3 of this SDS. Change gloves frequently.

· If direct skin contact is expected: use gloves tested according to EN 16523-1/ASTM F739 or equivalent local standard, tested for chemicals indicated in chapter 3 of this SDS. Permeation time must exceed contact time.

· **Material of gloves** chemical-resistant gloves

· **Penetration time of glove material**

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and must be observed.

· **Eye protection:** Use safety glasses tested according to EN166/ANSIZ87.1 or equivalent local standard.

· **Body protection:** Impervious clothing, protective clothing with long sleeves and boots.

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

**Appearance: Solid Flakes**

· **Form: Flakes**

· **Color: Pale Yellow, Orange, Garnet**

· **Odor: No Odor**

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**Taste:** Not available

**Molecular Weight:** Not available

**Color:** Pale Yellow

**pH (1% soln/water):** Not available

**Boiling Point:** Not available

**Melting Point:** 75°C (167°F)

**Critical Temperature:** Not available

**Specific Gravity:** 1.035 – 1.140 (Water=1)

**Vapor pressure:** Not available

**Vapor Density:** Not available

**Volatility:** Not available

**10 Stability and reactivity**

- **Reactivity** In combustion emits toxic fumes of carbon dioxide/ carbon monoxide.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Heat. Sources of ignition, Pressure.
- **In compatible materials:** Acid, alkaline and strong oxidizing agents
- **Hazardous decomposition products:** Under normal conditions of storage are not known dangerous substances in decomposition.

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**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

Oral	LD50	Not available.
Dermal	LD50	

- **Primary irritant effect:**
- **On the skin:** No irritant effect known.
- **On the eye:** No irritant effect known.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.  
The substance is not subject to classification.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)** Substance is not listed.
- **NTP (National Toxicology Program)** Substance is not listed.
- **OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.

**12 Ecological information**

- **Toxicity**

· **Aquatic toxicity:**

EC50(48h)	Not available.
EC50(72h)	

- **Persistence and degradability** Readily biodegradable
- **Behavior in environmental systems:**
- **Bio accumulative potential** No Further information available.
- **Additional ecological information:**
- **General notes:**
- **Water hazard class 2 (German Regulation) (Self-assessment):** Non-hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** The substance is not PBT.
- **vPvB:** The substance is non vPvB



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**Other adverse effects** No further relevant information available.

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**13 Disposal considerations**

**Waste treatment methods**

**Recommendation:**

Avoid disposing into drainage systems and into the environment. Dispose of waste material according to local, state and federal regulations.

**Uncleaned packaging:**

**Recommendation:**

Dispose of as unused product.

Empty the packaging completely prior to disposal. Rinse with water. Disposal must be made according to official regulations.

**14Transportinformation**

**UN-Number**

**DOT, ADR, IMDG, IATA**

Not regulated.

**ADN**

Not regulated

**UN proper shipping name**

Not Regulated

**DOT, ADR, IMDG, IATA**

Not regulated

**Transport hazard class(es)**

Not Regulated

**DOT, ADR, ADN, IMDG, IATA**

**Class**

Not regulated

**Packing group**

Not Regulated

**DOT, ADR, IMDG, IATA**

Not regulated

**Environmental hazards:**

**Marine pollutant:**

No

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**Transport/Additional information:**

**DOT**

**Hazardous substance:**

Not regulated

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·UN"Model Regulation":

Not regulated

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**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355(extremely hazardous substances):** Substance is not listed.
- **Section 313(Specific toxic chemical listings):** Substance is not listed.
- **TSCA (Toxic Substances Control Act):**
- **Proposition 65**
- **Chemicals known to cause cancer:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
- **Chemicals known to cause developmental toxicity:** Substance is not listed.
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)**
- **TLV (Threshold Limit Value)** Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**  
Substance is not listed.
- **GHS label elements** Not applicable
- **Hazard pictograms** No pictogram
- **Signal word** No signal word
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**  
International Inventories  
Australian Inventory of Industrial Chemicals (AIIC)  
China - Chemical Inventory of Existing Chemical Substances (IECSC)-Listed  
Danish Environmental Protection Agency (DK-EPA)-Listed  
KEMI List of Substances on the Market-Listed  
Korea-KE Numbers-Listed  
New Zealand- Inventory of Chemicals (NZIoC)- Listed  
Philippine Inventory of Chemicals and Chemical Substances (PICCS)-Listed  
Taiwan Chemical Substance Inventory (TCSI)- Listed  
Thailand-First Existing Chemicals Inventory -Listed

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**Chemical safety assessment:**

*Chemical Safety Report not required as the substance is not classified.*

**16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises danger uses par chemin de fer  
(Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association"  
(IATA)ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation"(ICAO)  
ADR: Accord relatif au transport international des marchandises danger uses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System  
(USA) LC50: Lethal concentration, 50 percent  
LD 50: Lethal dose, 50 percent  
PBT: Persistent, Bio accumulative and Toxic  
vPvB: very Persistent and very Bio accumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit



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