



**Industrial
Plasters**
Proven Reliability

MATERIAL SAFETY DATA SHEET

SHELLAC FLAKES

according to 91/155 EC

1. Identification of substance

- Product details

Shellac – Natural resin of animal origin

- Manufacturer/Supplier:

Industrial Plasters Ltd
63 Netherstreet
Bromham
Chippenham
Wiltshire
SN15 2DP
Tel. 01380 850616
Email. info@industrialplasters.com

2. Composition/Data on components

- Chemical characterisation:

Main constituents:

Low molecular polyesters with aleuritic acid (9,10,16-trihydroxypalmitic acid) and shellolic acid/related acids as essential constitutional units.

CAS-NO 9000-59-3

EC-NO 232-549-9

- Dangerous Components: Not applicable.

3. Potential hazards

Not known

4. First aid measures

Not applicable

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5. Fire fighting measures

- Extinguishing means:
Carbon dioxide, water, extinguishing foam or powder

6. Accidental release measures

- Person-related safety precautions/Environmental protection
No particular recommendations
- Measures for cleaning/collecting:
Usual procedures for collecting powdery or granular materials

7. Handling and storage

- Handling
Information for safe handling: No particular recommendations
- Storage
Requirements to be met by storerooms and containers: Store cool (<20°C) and dry
- Information about storage in one common storage facility:
Not required

8. Exposure controls and personal protection

Additional information about design of technical systems:

No further data; see item 7

- Components with critical values that require monitoring at the workplace:
None

Personal protective equipment:

Not applicable

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9. Physical and chemical properties

- Appearance:

Form: Flakes

Colour: Transparent yellow to brown (depending on type) Smell: Nearly odourless

- Safety-related specifications:

Melting range: 65 – 700°C

Flash point: >300°C

Ignition temperature: >300°C

Danger of explosion: Product is not explosive

Shellac dust might form, however, explosive mixtures with air

Bulk density: 400 kg/m³

Solubility in: Low molecular primary alcohols e.g. methanol, ethanol, propanol, aqueous- alkaline solvents.

10. Stability and reactivity

- Dangerous reactions: Not known

- Dangerous decomposition products: Not known

11. Toxicological information

Reference to acute or chronic toxic effects upon oral or dermal exposure caused by realistic doses are not known

- Acute toxicity:

Oral: LD50(rat) : > 5000 mg/kg body weight

Dermal: LD50(rabbit) : >10000 mg/kg body weight

Inhalative: No references to toxic effects caused by shellac in experimental studies with rabbits

- Chronic toxicity and reproduction toxicity:

Oral: Rat: 100 mg shellac per animal per day do not show toxic effects over a 90 day period

- Mutagenicity:

Not detectable

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12. Ecological information

- Biodegradability:

Measurement by Closed-Bottle-Test according to OECD guideline 301D;
measured parameter: BOD applied to COD
Result: Degradability approx. 34% in 28 days.

- Aquatic toxicity:

None or very little aquatic toxicity can be expected up to the limit of solubility (in absence of solubilisers).

Test with *scenedesmus subspicatus* according to DIN 38412; application of Tris-(hydroxymethyl)-aminomethan as buffer and solubiliser. Result: EC50 (24 h): >400 mg/l

Test with *Daphnia magna* Strauss according to DIN 38412: application of sodium phosphate as buffer and solubiliser.
Result: EC50 (24 h): >500 mg/l.

13. Disposal considerations

- Recommendation:

- Product /Uncleaned packings:

May be burned with domestic waste under observance of the local official regulations.

14. Transport information

Shellac is not subject to international transport regulations.

15. Regulatory information

Shellac is not subject to international regulations concerning dangerous goods.

16. Additional information

The data in this material safety data sheet are based on our present knowledge. They do not however represent a guarantee for any specific product features and do not create any legally valid contractual relationship.

Issued: 13th December 2020

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