07.11.2025

DistrEbution

Safety information sheet

Version: 1.0 EN

Shellac blonde flakes, dewaxed

Article number: D10032

This document has been prepared as a communication tool to inform downstream users about both the status of the substance under REACH and CLP, some of its essential properties and the guidance on safe use. An extended safety data sheet (SDS) is not required for this substance under Article 31 of REACH Regulation (EC) No 1272/2008, including the amending Regulation (EU) 2020/878. As a result, the format and content of this document does not comply with the framework for safety data sheets set out in Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006.

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1 Identification of the substance/mixture and the company

1.1 Product identifier

Name	Shellac blonde flakes, dewaxed
CAS number	9000-59-3
EC number	232-549-9
REACH registration	05-2114511069-55-xxxx

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

Description/use	The product is intended for industrial use. For information on other possible applications, please contact us at the telephone number provided. We will be happy to connect you with the appropriate contact person.

1.3 Details of the supplier providing the safety information sheet

Company	DistrEbution GmbH
Adress	Brookdeich 40 21029 Hamburg Germany
Telephone	+49 40 609 2387 60
E-Mail	info@distrebution.com

1.4 Emergency number

+49 40 609 2387 60 (Business hours: Mon - Thu: 8 a.m.- 5 p.m. / Fri: 8 a.m. – 4 p.m.)

2 Potential hazards

2.1 Classification oft he substance or mixture

Not classified according to Chemicals Regulation (EC) No.1272/2008.

2.2 Label elements

Not subject to classification according to Regulation (EC) No 1272/2008.

2.3 Other hazards

Not classified as a PBT or vPvB substance according to assessment

3 Composition/information on ingredients

Chemical characterization:	Shellac blonde flakes, dewaxed
CAS number	9000-59-3
EC number	232-549-9
REACH registration	05-2114511069-55-xxxx
Hazardous ingredients	none
Nanoparticles	No nanoparticles according to Regulation (EU) 2018/1881

4 First-aid measures

4.1 Description of first-aid measures

Remove all contaminated clothing.

After eye contact

Rinse with plenty of water. Remove contact lenses. If irritation persists, consult an ophthalmologist.

After skin contact

Wash with plenty of soap and water.

Inhalation or ingestion

Move the person to fresh air. Consult a doctor if you feel unwell. Rinse mouth with water and drink plenty of water. Never give anything by mouth to an unconscious person. Induce vomiting if the person is conscious. Seek medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see Section 2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

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5 Firefighting measures

5.1 Eytinguishing agents

Suitable extinguishing agents

Water jet, foam extinguishing agent, extinguishing powder, carbon dioxide (CO2)

Unsuitable extinguishing agents

Full water jet

5.2 Special hazards arising from the substance or mixture

Incomplete combustion can produce dangerous gases (carbon monoxide)

5.3 Advice fo firefighters

Protective equipment for firefighters

Only enter the danger zone with self-contained breathing apparatus. Avoid skin contact, maintain a safe distance or wear suitable protective clothing.

Prevent extinguishing water from entering surface water or groundwater. Fire residues and contaminated extinguishing water must be disposed of in accordance with local regulations.

Collect contaminated extinguishing water separately. It must not be allowed to enter the sewage system.

5.4 Further information

Prevent extinguishing water from entering surface water or groundwater. Fire residues and contaminated extinguishing water must be disposed of in accordance with local regulations.

Collect contaminated extinguishing water separately. It must not be discharged into the sewer system.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing. Avoid contact with skin and eyes. Do not swallow or inhale.

6.2 Environmental precautions

Do not allow to enter drains, surface water or groundwater. Notify local authorities if the product contaminates soil or vegetation.

6.3 Methods and material for containment and cleaning up

Use standard procedures for collecting powdered or granular material. Clean the affected area. All alkaline cleaning agents are suitable.

6.4 Reference to other sections

Hazardous combustion products: see Section 5.

Personal protective equipment: see Section 8.

Disposal instructions: see Section 13.

7 Handling and storage

7.1 Precautions for safe handling

Keep container tightly closed. Wear suitable protective clothing (see Section 8). Avoid contact with eyes and skin.

Hygiene measures

Keep away from food, beverages and animal feed. Do not eat, drink or smoke when handling the product. Wash hands thoroughly before breaks and after work. Remove contaminated clothing. Store work clothing separately. Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilites

Stable under recommended storage conditions.

Minimum shelf life: 2 years (at 20 °C and 50 % relative humidity).

Store in a dry place in the original, tightly closed containers. Keep locked up.

Storage class (VCI concept): 13, non-combustible solids.

Do not store together with: Food, beverages and animal feed.

7.3 Specific end uses

Recommendations: No information available.

Industry-specific information: No information available.

8 Exposure controls/personal protective equipment

8.1 Parameters to be monitored

Does not contain any substances with workplace exposure limits.

8.2 Limitation and monitoring of exposure

8.2.1 Appropriate engineering controls

Ensure adequate ventilation at workplaces, e.g. by local exhaust ventilation.

If these measures are not sufficient to keep the particle and/or solvent concentration below the limit values (MAK), suitable respiratory protection must be used.

Technical measures and suitable working methods should take precedence over the use of personal protective equipment.

8.2.2 Individual protection measures, personal protective equipment

General protective measures

Keep away from food and drink. Avoid contact with skin, eyes and clothing. Remove contaminated clothing immediately.

Respiratory protection

Not required.

Respiratory protection

Not required.

Hand protection

The protective gloves to be used must comply with the requirements of EC Directive 89/686/EEC and the associated standard EN 374.

Eye protection

Safety goggles with side protection in accordance with EN 166, BGR 192, ZH 1/703.

Hygiene measures

Use preventive skin protection. Change contaminated clothing immediately. Wash hands and face thoroughly after work. Do not inhale the substance. Handle in accordance with good occupational hygiene and safety rules. Suitable materials for protective gloves are butyl rubber, polyvinyl chloride (PVC), fluorinated rubber and nitrile rubber.

All of the above materials have a breakthrough time of at least 8 hours, which ensures long-lasting protection when used properly.

8.2.3 Environmental exposure controls and monitoring

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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Solid flakes
Colour	Yellow

Odour	Virtually odourless
pH value	Not applicable
Melting point	65–77°C
Boiling point	Not applicable
Flammability	No data available
Lower and upper explosion limits	Not relevant (solid)
Flash point	> 300°C
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Kinematic viscosity	No data available
Water solubility	Insoluble
Partition coefficient n-octanol/water:	No data available
Vapour pressure	No data available
Density	400 kg/m3
Relative vapour density	No data available
Particle properties	Not applicable
Explosive properties	Product does not pose an explosion hazard
Oxidising properties	No data available

9.2 Other information

No data available.

10 Stability and reactivity

10.1 Reactivty

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

None if the product is stored and handled in accordance with regulations. In case of fire, see section 5.

11 Toxicological information

11.1 Information on hazard classes according to Regulation (EC) No. 1272/2008

Acute toxicity	Inhalation: There is no evidence of toxic effects of shellac from animal experiments with rabbits. Oral: LD_{50} (rat): > 5000 mg/kg Dermal: LD50 (rabbit): > 10,000 mg/kg.
Skin corrosion/irritation	No skin irritation observed.
Serious eye damage/eye irritation	Contact with eyes may cause slight irritation.
Respiratory or skin sensitisation	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available.
Reproductive toxicity	No data available.
Specific target organ toxicity after single exposure	No data available.
Specific target organ toxicity after repeated exposure	No data available.
Aspiration hazard	No data available

11.2 Additional toxicological information

No data is available for the product itself.

The description of possible harmful effects on health is based on practical experience and/or toxicological data for individual components.

The acute toxicity potential, the irritation potential for skin and mucous membranes, the mutagenic potential and the sensitising potential have been assessed by the manufacturer on the basis of the available data for the main components.

In some cases, however, this data is incomplete.

In the manufacturer's experience, no hazards other than those already indicated on the label are to be expected.

When used properly, no hazards to human health are known or to be expected.

Shellac is recognised as an approved food additive (E904) and has been toxicologically tested in accordance with legal requirements.

12 Environmental information

12.1 Toxicity

No ecotoxicological data are available for the product itself.

Studies with the main ingredient shellac show low aquatic toxicity.

Acute toxicity to algae (72 hours) resulted in an EC_{50} value of approximately 440 mg/L.

Acute toxicity to daphnia (24 hours) resulted in an EC_{50} value of ≥ 500 mg/L.

12.2 Persistence and degradability

No data are available on abiotic degradation or physical or photochemical elimination processes.

Shellac exhibits moderate biodegradability. After 28 days, a degradation rate of approximately 34% was determined in accordance with OECD test method 301D.

12.3 Bioaccumulatiove potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The substance/mixture does not contain any components that are considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in concentrations of ≥ 0.1%.

12.6 Endocrine-disrupting properties

Based on current knowledge, the substance/preparation does not contain any components with endocrine-disrupting properties in accordance with Article 57(f) of the REACH Regulation or in accordance with Delegated Regulations (EU) 2017/2100 and (EU) 2018/605.

12.7 Other adverse effects

The product does not contain any organically bound halogens (AOX).

The content of volatile organic compounds (VOC) is less than 1%.

13 Disposal instructions

13.1 Waste treatment method

If recycling is not possible, disposal must be carried out in accordance with local waste regulations.

The classification of waste according to the European Waste Catalogue (EWC/AVV) depends on the industry and process and must be carried out by the waste producer.

The waste producer is responsible for the correct labelling and classification of their waste.
A suitable waste code number must be determined in consultation with the competent authorities and an approved waste disposal company.
The waste may only be handed over to an authorised waste disposal company.

The product must not be allowed to enter surface water or the sewage system.

Recommended waste code number (EAK/AVV)

080112 – Waste paints and varnishes, except those covered by 080111 (waste paints and varnishes containing organic solvents or other dangerous substances).

Packaging

Completely emptied packaging can be reused after thorough cleaning or taken to local recycling facilities.
Soapy water or an alkaline cleaner is recommended as a cleaning agent.
Uncleaned packaging must be disposed of in the same way as the substance itself..

14 Transport information

14.1 UN number or ID number

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14.2 Proper UN shipping name

Not dangerous goods

14.3 Transport hazard classes

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14.4 Packaging group

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14.5 Environmental hazards

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14.6 Special precautions for the user

Land transport	Not applicable
Sea transport	Not applicable
Air transport	Not applicable
Inland waterway transport	Not applicable
Rail transport	Not applicable

14.7 Bulk transport by sea in accordance with IMO regulations

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15 Legislation

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Legislation for the substance or mixture

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 (REACH).

Restrictions on marketing and use:

Not applicable.

Major Accidents Ordinance (12th BImSchV):

Not applicable.

Water hazard class (WGK):

WGK 1 (according to AwSV, Annex 1) – slightly hazardous to water.

Technical Instructions on Air Quality Control (TA-Luft):

Not applicable.

Storage class (according to VCI concept):

13 – Non-combustible solids.

Directive 1999/13/EC (VOC Directive):

Content of volatile organic compounds (VOC): < 1%.

Substances of Very High Concern (SVHC):

This product does not contain any substances that are considered to be of very high concern within the meaning of the REACH Regulation.

International substance inventories:

All components of this product are registered in the relevant national chemical inventories, including:

Europe (EINECS/ELINCS), USA (TSCA), Canada (DSL), Australia (AICS), China (IECS), Taiwan (NECSI), Japan (ENCS), Korea (KECI), Philippines (PICCS), New Zealand (NZLoC) and Switzerland.

15.2 Chemical safety assessment

No substance safety assessment has been carried out for this substance.

16 Other information

16.1 Abbreviations and acronyms

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road

RID – Regulations concerning the International Carriage of Dangerous Goods by Rail

IMDG – International Maritime Dangerous Goods Code

IATA – International Air Transport Association

GHS – Globally Harmonised System of Classification and Labelling of Chemicals

EINECS – European Inventory of Existing Commercial Chemical Substances

CAS – Chemical Abstracts Service

EC50 – Effective concentration, 50%

LC50 – Lethal concentration, 50%

LD50 – Lethal dose, 50%

TWA – Time Weighted Average

STEL – Short Term Exposure Limit

PBT – Persistent, Bioaccumulative and Toxic

vPvB – Very Persistent and Very Bioaccumulative

16.2 SVHC

The substances on the ECHA list (http://echa.europa.eu/en/candidate-list-table) are neither expected to be present in our products nor are they intentionally used in the production process. Our products do not come into contact with these substances during production. However, it is not possible to completely rule out traces of these substances: due to natural impurities or raw material-related properties, an unintentional content of less than 0.1% cannot be completely ruled out.

16.3 Note for users

The information in this data sheet is based on our current knowledge at the time of the last revision. The user is responsible for checking the suitability and completeness of the information in relation to the specific use of the product.

This document does not constitute a guarantee for specific properties of the product. As we have no direct influence on the use of the product, the user is obliged to comply with all applicable laws, regulations and safety and hygiene provisions on his own responsibility. We accept no liability for improper use. Personnel entrusted with the handling of chemicals must be appropriately trained.