

Safety information sheet

Version: 1.0 EN

DistrEco soy wax flakes

Article number: D10107

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.

1 Identification of the substance/mixture and the company

1.1 Product identifier

Name	DistrEco soy wax flakes
CAS number	31566-31-1
EC number	250-705-4/286-490-9
REACH registration	-

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

Description/use	The product is intended for industrial use and the manufacture of candles. For further information on specific applications, please contact us at the telephone number provided – we will be happy to put you in touch with the relevant specialist department.
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1.3 Details of the supplier providing the safety information sheet

Company	DistrEbution GmbH
Address	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.)

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2 Potential hazards

2.1 Classification of the substance or mixture

Non-hazardous substance or non-hazardous mixture.

2.2 Label elements

- Hazard pictograms: None
- Signal word: None
- Hazard statements: None
- Precautionary statements: None

2.3 Other hazards

-

3 Composition/information on ingredients

Chemical	DistrEco soy wax flakes
characterization:	
CAS number	31566-31-1
EC number	250-705-4/286-490-9
REACH registration	-
Hazardous ingredients	-
Nanoparticles	No nanoparticles according to Regulation (EU) 2018/1881

4 First-aid measures

4.1 Description of first-aid measures

General information

First aiders should wear gloves and other personal protective equipment when administering first aid.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. Seek medical attention.

After skin contact

Wash with plenty of soap and water and rinse thoroughly. Seek medical advice if skin irritation or discomfort occurs. If in contact with hot material, cool any adhering molten material immediately and seek medical assistance.

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Inhalation or ingestion

Seek medical advice if you feel unwell. If inhaled, move to fresh air. Rinse mouth and do not induce vomiting. Seek medical advice if you feel unwell or have any concerns.

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms and effects

Skin contact may cause irritation.

Fumes from heated material may irritate the respiratory tract.

Contact with hot material may cause thermal burns.

Delayed symptoms and effects

Prolonged skin contact may cause mild irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Special treatment

Burns should be treated in the same way as thermal burns.

Notes for the doctor

Treatment should be based on the patient's symptoms and clinical condition.

5 Firefighting measures

5.1 Extinguishing agents

Suitable extinguishing agents

Water mist, dry extinguishing agents, chemical foam, carbon dioxide or alcohol-resistant foam

Unsuitable extinguishing agents

Do not use a water jet, as this may cause the fire to spread

5.2 Special hazards arising from the substance or mixture

Thermal decomposition may lead to the release of irritating gases and vapours.

High concentrations of dust may form flammable mixtures with air. Avoid the formation of dust; finely divided dust in sufficient concentrations and in the presence of an ignition source poses a potential risk of dust explosion.

Special precautions

Rags, steel wool or waste contaminated with this product may self-ignite if handled or disposed of improperly.

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5.3 Advice fo firefighters

Protective equipment for firefighting

Use standard firefighting equipment, self-contained breathing apparatus and a special, tightly-fitting protective suit.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear the recommended personal protective equipment.

Ensure there is adequate ventilation.

Ensure that ventilation systems are in good working order.

6.2 Environmental precautions

Do not release into the environment. Avoid discharge into the sewerage system, surface water or groundwater.

6.3 Methods and material for containment and cleaning up

Wear safety goggles, gloves and protective clothing. Dispose of contents/container in accordance with local regulations. Absorb with non-flammable, liquid-binding material (sand, diatomaceous earth/clay, acid binders, universal binders). Soak used rags or other cleaning materials with water and place them in a sealed container to prevent spontaneous combustion. Allow molten material to cool and solidify.

6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protective equipment.

See section 13 for information on disposal.

7 Handling and storage

7.1 Precautions for safe handling

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Do not eat, drink, or smoke when handling chemical substances. Wash thoroughly after handling. Soak used rags or other cleaning materials with water and place them in a sealed container to prevent spontaneous combustion. Avoid processing operations that generate or accumulate dust. Combustible dust clouds may form when fine material (dust) is produced.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place. Protect from frost and physical damage. Keep container tightly closed.

8 Exposure controls/personal protective equipment

8.1 Parameters to be monitored

Occupational Exposure Limits

Country / Legal Basis	Substance	Identifier	Permissible Concentration
ACGIH	Stearic acid, monoester with glycerol	31566-31-1	8-hour TWA: 3 mg/m ³ (stearates excluding stearates of toxic metals), respirable fraction
ACGIH	Stearic acid, monoester with glycerol	31566-31-1	8-hour TWA: 10 mg/m ³ (stearates excluding stearates of toxic metals), inhalable fraction

Biological Limit Values

No biological exposure limits have been established for the ingredients.

Information on Monitoring Procedures

Not determined or not applicable.

8.2 Limitation and monitoring of exposure

8.2.1 Appropriate engineering controls

Provide local exhaust ventilation or other engineering controls to keep airborne vapor and mist concentrations below applicable occupational exposure limits.

Emergency showers and eyewash stations should be available in the immediate work area.

If dust may be generated during processing operations, it can be ignited by friction, heat, sparks, or flames. It is recommended that all dust control equipment (e.g., local exhaust ventilation and material handling systems) be equipped with explosion relief or explosion suppression systems. Design dust handling systems (e.g., exhaust ducts, dust collectors, vessels, and processing equipment) to prevent the release of dust into the work area. Control static electricity, including grounding and bonding of equipment.

8.2.2 Personal protective equipment

8.2.2.1 Respiratory protection

Wear respiratory protection if there is a possibility of exceeding exposure limits. If no applicable exposure limits or guidelines exist, use a NIOSH-approved respirator.

Where air-purifying respirators are suitable, use a respirator with a multi-purpose combination filter (US) or ABEK-type respirator cartridges (EN 14387)

8.2.2.2 Hand protection

Select glove material that is impermeable and resistant to the substance. Suitable glove materials include nitrile/butadiene rubber (“nitrile” or “NBR”); coating thickness 0.11 mm, breakthrough time > 480 minutes. Where necessary, wear appropriate heat-protective clothing. Protective gloves are recommended for repeated or prolonged exposure. The selection of protective equipment depends on the specific task. Suitable gloves may be recommended by the glove supplier.

8.2.2.3 Eye protection

Wear safety glasses with side shields and chemical splash goggles.

8.2.2.4 Other protective measures

Avoid contact with skin, eyes, and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

9 Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form	Solid
Colour	Light yellow
Odour	Weak
pH	No data available
Boiling point	No data available
Melting point	51–55°C
Decomposition temperature	No data available
Flash point	315°C
Evaporation rate	No data available
Auto-ignition temperature	No data available
Flammability	No data available
Lower and upper explosion limits	No data available
Vapour pressure	No data available
Relative vapour density	No data available
Density and/or relative density	0.920–0.925 g/cm ³
Water solubility	Insoluble
Partition coefficient: n-octanol/water	No data available
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

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9.2 Other information

No data available.

10 Stability and reactivity

10.1 Reactivity

No reaction under normal conditions of use and storage.

10.2 Chemical stability

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

Under normal conditions of use, no hazardous reactions are known to occur. Significant surface exposure to oxygen may lead to polymerisation and the release of heat. Flammable concentrations of dust may be generated in the air during processing operations.

10.4 Conditions to avoid

Avoid exposure to heat and contact with sources of ignition. Avoid the formation and accumulation of dust. Avoid large-scale exposure of the surface to oxygen.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide.

11 Toxicological information

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

Acute oral toxicity	LD50 mouse: > 5000 mg/kg
Acute dermal toxicity	LD50 rat: > 2000 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause mild skin irritation. Molten material may cause thermal burns.
Serious eye damage/irritation	May cause mild, temporary eye irritation.
Respiratory or skin sensitization	No relevant data on respiratory sensitisation found. Sensitive individuals may develop dermatitis following prolonged skin contact.
Germ cell mutagenicity	Based on the available data, the classification criteria are not met.

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Carcinogenicity

Based on the available data, the classification criteria are not met. OSHA carcinogens: Not applicable.

Reproductive toxicity

Based on the available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Based on the available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

Based on the available data, the classification criteria are not met.

Aspiration hazard

No aspiration hazard.

11.2 Information on other hazards

Information on Likely Routes of Exposure

Inhalation: Short-term exposure is not expected to cause harmful effects. Excessive inhalation of oil mist may affect the respiratory tract.

Skin contact: Prolonged skin contact may cause dryness, cracking, or irritation.

Sensitive individuals may develop dermatitis.

Eye contact: Contact with the eyes may cause temporary irritation.

Ingestion: Not expected to be acutely toxic. Very low toxicity if swallowed.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics

Skin contact may cause itching, cracking, swelling, and redness.

Eye contact may cause itching, tearing, and redness.

Vapors from heated material may cause coughing or sneezing.

Ingestion of large amounts may cause gastrointestinal discomfort, including possible nausea, vomiting, and diarrhea.

11.3 Endocrine disrupting properties

No information available

11.4 Other information

No information available

12 Environmental information

12.1 Toxicity

Acute (Short-Term) Toxicity

Assessment: The product is not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent releases may have harmful effects on the environment.

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Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Substance	Result
Stearic acid, monoester with glycerol	The substance is readily biodegradable (69-95% degradation after 28 days, measured by oxygen consumption).

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

Substance	Result
Stearic acid, monoester with glycerol	Log Koc: 2–7,9

12.5 Results of PBT and vPvB assessment

PBT assessment: This product does not contain any substances assessed as PBT.

vPvB assessment: This product does not contain any substances assessed as vPvB.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

13 Disposal instructions

13.1 Waste treatment methods

Product

Dispose of in accordance with applicable federal, state, and local regulations.

Packaging

Dispose of in accordance with applicable federal, state, and local regulations.

14 Transport information

14.1 Transport ADR/RID/ADN

Parameter	Information
UN number	Not regulated
Proper UN shipping name	Not regulated
Transport hazard classes	None
Packing group	None
Environmental hazards	None
Special precautions for the user	None

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14.2 Transport IMDG

Parameter	Information
UN number	Not regulated
Proper UN shipping name	Not regulated
Transport hazard classes	None
Packing group	None
Environmental hazards	None
Special precautions for the user	None

14.3 Transport ICAO-TI / IATA

Parameter	Information
UN number	Not regulated
Proper UN shipping name	Not regulated
Transport hazard classes	None
Packing group	None
Environmental hazards	None
Special precautions for the user	None

15 Legislation

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

15.1.1 EU regulations

- EINECS-Inventar: Alle Inhaltsstoffe sind gelistet oder ausgenommen.
- REACH-SVHC-Kandidatenliste: Keiner der Inhaltsstoffe ist gelistet.
- REACH-SVHC-Zulassungen: Keiner der Inhaltsstoffe ist gelistet.
- REACH-Beschreibungen: Keiner der Inhaltsstoffe ist gelistet.
- Wassergefährdungsklasse (WGK) Produkt: Klasse 1.

Substance	CAS No.	Classification
Stearic acid, monoester with glycerol	31566-31-1	Water hazard class 1: slightly hazardous to water

15.2 Chemical safety assessment

A chemical safety assessment has not 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

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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.