

MATERIAL SAFETY DATA SHEET

1. Identification of the substance

Name: Soy Waxes 4150, 4160, 4170, 4180
Trade Names: EcoSoya™ CB-135, EcoSoya™ CB-Advanced Soy, EcoSoya™ PB, EcoSoya™ CB-Pure Soy

2. Composition / Information on Ingredients

Chemical Name and Synonyms Partially hydrogenated vegetable oils
Chemical Family Saturated and unsaturated vegetable lipids predominantly containing triglycerides, diglycerides and monoglycerides.
CAS Number 8016-70-4
EINECS Number 232-410-2
List of Dangerous Ingredients None. This product contains no dangerous ingredients

3. Hazard Identification

Inhalation Mist or fumes may cause irritation or coughing.
Eyes Harmless when cold, heated wax may cause burns.
Skin May cause irritation in contact with skin. A patch test should always be carried out before application onto skin.
Ingestion Harmless if swallowed in small doses, but larger amounts may cause nausea and diarrhoea. Low order of toxicity.

4. First Aid Measures

Inhalation Remove to fresh air. Obtain medical attention if symptoms persist.
Eyes Cold wax. Wash eyes thoroughly with water. Heated wax. Rinse with cool water to dissipate heat, do not try to remove wax. Obtain prompt medical attention.
Skin Cold wax. Wash with soap, hand cleaner and water. Hot wax. Flush skin with cold water to cool as quickly as possible. Cover with clean cotton or gauze. Do not attempt to remove wax from a burn as this can result in tissue loss. Obtain prompt medical attention.
Ingestion Wash the mouth with water. If large amounts are swallowed obtain prompt medical attention.

5. Fire and Explosion Hazard Data

Flash Point, °C >200
Flammable Limits Requires exposure to high temperature and naked flame.
Extinguishing Media Dry chemical, CO₂, foam.
Special Fire Fighting Procedures Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Fire and Explosion Hazards Slight when exposure to heat and flames.
Fire Class according to DIN-EN 2:

6. Accidental Release Measures

In Case of Spill If molten, allow to solidify, scrape up and dispose of as solid combustible material. Do not wash solid or molten wax into drains.

7. Special Storage and Handling Precautions

Storage Store away from boilers and hot pipes.
Handling Protection No special precautions other than protection from splashing or contact with molten material.

8. Exposure Control / Personal Protection Information

Exposure Limits A threshold value of 15mg/m³ total particles.
Eye Protection Safety glasses, chemical goggles (if splashing possible).
Skin Protection Heated wax should be handled with caution and suitable protective clothing worn.
Respiratory Protection Adequate ventilation
Ventilation Normal ventilation

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9. Physical Data

Physical state at room temperature	Waxy solid
Form supplied	Flakes
Colour	White to Yellow
Odour in physical state	Faint fatty odour
Odour in molten state	Characteristic Oily Odour
Density at 20°C	0.888 - 0.917 at 87.8 deg C
Congeaing Point, °C	37 – 40
Drop Melting Point, °C	n/a
Ring and Ball Softening Point, °C	n/a
Viscosity at 100°C, cSt	10 at 87.8 deg C
Penetration at 25°C	n/a
Acid Value	n/a
Saponification Value	190 - 200

10. Reactivity Data

Stability	Stable
Hazardous Decomposition Products	None
Hazardous Polymerisation	Will not occur
Incompatibility - materials to avoid	None

11. Toxicological Data

Toxicology	No data available
Health Effects	None expected

12. Ecological Information

Unlikely to cause any environmental hazards. Degrades very slowly at ambient temperatures.

13. Disposal Considerations

Disposal of waste product	Treat as solid combustible materials and dispose in accordance with local regulations.
WC-Code	12 01 12 Spent waxes and fats
Disposal of packaging – pallets	Pallets can be returned to supplier via haulier / forwarding agent
Disposal of packaging – cartons	Cartons may be returned to the appropriate used paper recycling point.

14. Transportation

Designation	Non-hazardous
Special Precautions	None

15. Regulatory Information

There is no regulatory material available.

16. Other Information

Further reading	Ullmans's Encyclopedia of Industrial Chemistry, 5th Edition, Vol. A28, Chapter "Waxes", Verlag Chemie, 1996 Shubik et al., Toxicol. Appl. Pharmacol, 4, Suppl. 1-62, 1962
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