

MATERIAL SAFETY DATA SHEET according to Regulation (EU) 453/2010
DEUREX[®] E 25

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

1.1. Product identifierTrade name: DEUREX[®] E 25**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Industrial use (Use category SU 3):

- Additive for paints and coatings
- Additive for printing inks
- Lubricants for non-polar pigment concentrates (Polyolefin Masterbatch)
- Plastics industry
- Technical applications

1.3. Details of the supplier of the safety data sheet

DEUREX AG

Dr.-Bergius-Str. 8 – 12

D - 06729 Elsteraue

Tel.: +49(0)3441 / 8 29 29 29, Fax: +49(0)3441 / 8 29 29 28

Material-Safety@Deurex.comwww.Deurex.com**1.4. Emergency telephone number**

Common poisons information centre of the Federal States

Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia.

D-99089 Erfurt

Tel.:+49(0)361-730730

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 [GHS]:

H phrases: not specified

P phrases: not specified

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008 [GHS]:

not specified.

2.3. Other hazards

not specified

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Chemical identity and characterisation:

Chemical identity: Non-polar Polyethylene wax
CAS No: 9002-88-4
EINECS No: Polymer

4. FIRST AID MEASURES

4.1. Description of first aid measures

General: A hazard originated from the substance can occur during processing in hot state (risk of burning)!

Inhalation: Dust can irritate the respiratory tract. If breathing fumes, smoke and gases produced at higher temperatures, irritations of the respiratory system are possible. Remove the person to fresh air.

Skin: Rinse contaminated skin with plenty of water. Remove contaminated clothing and shoes. If symptoms persist, seek medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. In case of contact with hot product apply first aid according to the degree of burn. Cool affected area with cool water. Do not remove solidified product from the skin. Remove clothing only if it does not stick to the skin. Cover affected areas with sterile Metalline fire cloth and provide medical treatment.

Eye: Foreign bodies cause mechanical irritation. Remove foreign bodies. in Rinse eye, holding the eye lids apart, thoroughly under running water. In case of complaints seek medical advice.



Swallowing: Rinse the mouth with water. Remove affected person to fresh air. Keep person warm and calm. If material has been swallowed and the affected person is conscious, give small amounts of water to drink. If you experience nausea do not let the person drink more since vomiting can be dangerous. Do not induce vomiting unless directed by medical personnel. If symptoms persist, seek medical attention. Never infuse an unconscious person anything through the mouth. In case of unconsciousness, place in recovery position and seek immediate medical attention.

- 4.2. Most important symptoms and effects, both acute and delayed**
No typical symptoms and effects known. If symptoms persist, seek medical advice.
- 4.3. Indication of any immediate medical attention and special treatment needed**
No additional information available.

5. FIREFIGHTING MEASURES

- 5.1. Extinguishing media**
Suitable extinguishing media:
Foam, dry chemical, carbon dioxide, water spray. Extinguishing media that suit the surrounding fire.
- Unsuitable extinguishing media:
Water jet.
- 5.2. Special hazards arising from the substance or mixture**
Take precautionary measures against electrostatic charges.
Do not breath fumes of fire → Chapter 10.
- 5.3. Advice for firefighters**
Use approved compressed air breathing apparatus and wear firefighters protective clothing.



Do not empty fire water into drains. Fire residues and contaminated fire water must be disposed according to local regulations.

6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures**
Personal protection measures / protective equipment → Chapter 8.
- 6.2. Environmental precautions**
Contain product mechanically for recovery or disposal. Solidify hot liquid product and collect it in clean containers for recycling or disposal. Do not empty into drains or surface water.
- 6.3. Methods and material for containment and cleaning up**
Mechanical containment.
Observe Waste Act when disposing the waste and the contaminated material.
→ Chapter 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Usual precautions when handling chemicals → Chapter 8.

Keep away from ignition sources and take precautionary measures against electrostatic charges. The product is **not** dust explosive in the condition as received, however, prevent dust formation and raise of dust. In the presence of deposited combustible dust, risk of explosion is expected. When processing explosive dust may be accumulated, which can result in an explosive atmosphere. Good ventilation of the workplace, appropriate extraction and ventilation is required at the processing machines. Waxes are lubricants, danger of slipping!



7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Dry and at room temperature (10 – 25 °C).

Relative humidity < 80%.

Avoid direct sunlight and heat, moisture, water and other harmful influences → Chapter 10.

Do not store together with food and feeding stuff.

Storage class: 11 – Flammable solids.

Fire class: B – Fires involving liquids or liquefiable substances.



7.3. Specific end use(s)

Risk of burn when handling with liquid (hot) product.



According to the formulation, the product does not contain:

- Heavy metals
- VOC
- Compounds listed in the Chemicals Prohibition Ordinance
- Substances according to Directive 2002/95/EC – Appendix II
- Substances according to Regulation (EC) 1907/2006 – Appendix XIV (SVHC listing)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Components with critical values that require monitoring at the workplace:

EINECS No	Chemical name	Description	Value	Unit
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8.2. Exposure controls

Exposure limitation and controlling are workplace related and must be regulated by the user.

8.2.1. Appropriate technical safety devices

Ensure good ventilation - local exhaust. If this is not sufficient, wear respiratory protection.

8.2.2. Personal protective equipment

General protective and hygiene measures:

Usual precautions for handling chemicals. Do not eat, drink or smoke during work, and wear suitable protective clothing. Do not breathe dust. Wash hands before breaks. Remove contaminated clothing. After contact, clean skin with water and soap or use suitable cleanser. Do not use organic solvents.

Eye / Face protection:

Wear protective shield when handling hot material.



Skin / Body protection:

Wear protective gloves made of nitrile rubber. Wear heat-resistant gloves when handling hot material.



Wear protective clothing when handling hot material.

Waxes are lubricants, danger of slipping! Wear suitable footwear (antistatic work shoes).



Breathing protection:

If required, wear dust mask for fine particles when processing the product.



Wear respirator filter or breathing apparatus against vapours during thermal processing.

8.2.3. Limitation and controlling of environmental exposure

Information on environmental exposure → Chapters 6, 7 and 12.

The HSE recommends the following standards for personal exposure to the dust biologically inert material such as homopolymer

TWA hour 10 mg/m total dust

TWA hour 5 mg/m respirable dust

Product can accumulate static charges which can cause an incendiary electrical discharge.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Colour:	White
Aggregate state:	Solid
Form of delivery:	Flakes
Odour:	Waxy

9.2. Other information

Dropping point:	110 – 130 °C
Flash point:	> 200 °C
Spontaneous ignitability:	No
Oxidising properties:	None
Viscosity [140 °C]:	1000 – 4000 mPas
Specific gravity:	0.92 – 0.96 g/cm ³
Solubility:	Insoluble

10. STABILITY AND REACTIVITY

10.1. Reactivity

Unknown.

10.2. Chemical stability

The product is stable under normal conditions and the set handling and storage conditions described in Chapter 7.

10.3. Possibility of hazardous reactions

The product is not dust explosive in the condition as received. However, fine dust enrichment can cause a dust explosion.

10.4. Conditions to avoid

Keep away from ignition sources and take precautionary measures against electrostatic charges. Avoid dust formation and the raise of dust. Keep away from open fire and flames.

10.5. Incompatible materials

Strong oxidants.

10.6. Hazardous decomposition products

In case of combustion, CO, CO₂, flammable hydrocarbons, ammonia and smoke, as well as traces of nitrous gases and nitrogen oxides can be produced.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity: not measured.

Irritating effects: No significant effects or critical hazards known.

Eye irritation: No significant effects or critical hazards known.

Sensitisation: No significant effects or critical hazards known.

Germ cell
mutagenicity: No significant effects or critical hazards known.

Carcinogenicity: No significant effects or critical hazards known.

Reproductive
toxicity: No significant effects or critical hazards known.

Results of
CMR assessment: not specified

12. ECOLOGICAL INFORMATION

12.1. Toxicity

No significant effects or critical hazards known.

12.2. Persistence and degradability

Not easily biodegradable.

12.3. Bio-accumulative potential

No significant effects or critical hazards known.

12.4. Mobility in soil

No significant effects or critical hazards known.

12.5. Other adverse effects

Water hazard class: Not hazardous to water.

13. DISPOSAL CONSIDERATION

13.1. Waste treatment methods

The producer of the waste must dispose the product according to its use, specific to the industry and the process, in cooperation with the local waste management company based on local waste disposal regulations and national regulations and laws. Contaminated packaging should be disposed according to local and national regulations and in consultation with the local waste management companies. For Europe, the waste producer sets the waste code in accordance with the European Waste List (Decision 2000/532/EC). According to the present knowledge, the products are not regarded as hazardous waste as defined by EU Directive 91/689/EEC

14. TRANSPORT INFORMATION

Transport only in accordance with ADR for road haulage, RID for rail transportation, ADN/IMDG for carriage by vessel/sea and IATA for carriage by air.

	Road traffic - ADR -	Barge traffic - ADN -	Air traffic - IATA -
	Rail traffic - RID -	Maritime traffic - IMDG -	
14.1. UN number	No hazardous materials	No hazardous materials	No hazardous materials
14.2. UN proper shipping name	No hazardous materials	No hazardous materials	No hazardous materials
14.3. Transport hazard class(es)	No hazardous materials	No hazardous materials	No hazardous materials
14.4. Packing group	No hazardous materials	No hazardous materials	No hazardous materials

14.5. Environmental hazards No hazardous materials No hazardous materials No hazardous materials

14.6. Special precautions for user
→ Chapters 6 to 8.

15. REGULATORY INFORMATION

not specified

16. OTHER INFORMATION

List of all H and P phrases according to Regulation EC/1272/2008 dt. 16.12.2008:

H phrases: not specified

P phrases: not specified

Restrictions:

This information relates only to the above class of products and need not be valid if used with another product or in any special process.

Further information:

The information is based on our present knowledge, it is correct and complete. However, this information is given without a guarantee. It remains the responsibility of the user to satisfy itself whether the information is appropriate and complete for his special use of the product.

Sources:

Internal information
→ Chapter 15

Documentation:

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