

MATERIAL SAFETY DATA SHEET According to Appendix II of Regulation EC/1907/2006

DEUREX® V 2

1. IDENTIFICATION OF SUBSTANCE / COMPANY INFORMATION

Name: DEUREX® V 2

Use: Industrial applications:
• Additive

Company: DEUREX AG
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Emergency phone number: Joint poison information centre (Gemeinsames Giftinformationszentrum) of the federal states Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia
D-99089 Erfurt
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2. HAZARDS IDENTIFICATION

Hazard designation: None

Classification according to Directive 67/548/ECC, latest revision:
R phrases: None
S phrases: none

Classification according to Regulation EC/1272/2008:
H phrases: None
P phrases: None

Further information: No dangerous preparations according to:
- Directive 1999/45/EC
- Regulation EC/1272/2008
- Ordinance on hazardous substances (GefStoffV.)
Classified as polymer according to Regulation EC/1907/2006 (REACH).

3. COMPOSITION / COMPONENT DATA

Chemical identity: Polyvinylether

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Chemical characterisation:

CAS-No: 9003-96-7

EINECS-No: Polymer

Chemical formula: [C₂₀OH₄₀]_n

Molecular weight: ~ 3000 g/mol

Further information: May contain CAS 930-02-9 Octadecylvinylether as monomer
[EINECS-No. 213-208-3]

Hazardous components:

EINECS-No.	Chemical name	Labelling	Content-%
CAS-No.	R phrases/H phrases		
-	None	-	-
-	None		

4. FIRST AID MEASURES

Symptoms and reactions: No typical symptoms and reactions known. In case of continuing discomfort, consult a doctor.

General: Only hazardous when processing material in hot state (risk of burns)!

First Aid:

Inhaling: Dust may irritate respiratory system. Inhaling vapours, fume and gases, which are liberated at higher temperatures, may cause irritations of the respiratory system. Remove victim to fresh air.

Skin: General industrial hygiene is sufficient. In case of frequent and long-term contact, clean skin parts with plenty of water and soap and rinse thoroughly.
Apply first aid according to degree of burns. Cool affected body part with cool water. Do not remove solidified product from skin. Only remove clothes if they are not sticking to the skin. Cover affected part with sterile Metalline-cloth and provide for medical treatment.

Eye: Foreign bodies cause mechanical irritations. Remove foreign body., Rinse out eye with eye lids thoroughly open under running water. In case of any complaints, consult a doctor.



Swallowing: Rinse out mouth thoroughly, drink plenty of water. Consult a doctor immediately.

Further information: Treatment: In case of swallowing, initiate vomiting (if victim is conscious).
Symptomatic treatment (decontamination, vital functions).

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5. FIRE FIGHTING MEASURES

Extinguishing agents: Foam, dry extinguisher, carbonic acid, water spray

Unsuitable extinguishing agents:
Water jet

Specific hazards caused by the material itself, its products of combustion or resulting gases:
Do not breath fumes of fire → item 10.
Extinguishing agents appropriate to surrounding fire.

Special protective equipment: Use approved location-independent compressed air breathing apparatus and wear fire fighters protective clothing.



Further information: Do not empty extinguishing water into drains. Fire residues and contaminated extinguishing water need to be disposed according to official local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal related precautionary measures:
Personal related means of protection → item 8.

Measures for environmental protection:
Pick up product mechanically for recycling or disposal.
Solidify hot, liquid product and collect it in clean containers for (preferred) recycling or disposal. Do not empty into drains and surface water.
Consult experts for disposal and observe Waste Act. In case of spilling of large quantities, inform authorities.

Cleaning procedure: Pick up mechanically.
Avoid formation of dust, ensure sufficient ventilation.

Waste / Contaminated product:
Disposal → item 13.

7. HANDLING AND STORAGE

Handling: Observe general precautionary measures when handling with chemicals.
Avoid formation and raise of dust. Risk of explosion in the presence settled, flammable dusts. Ensure good ventilation at the workplace as well as appropriate exhaust and ventilation at the machinery.

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Waxes are lubricants, danger of slipping!



Storage:

Store dry and at room temperature (10 – 35 °C),
relative humidity < 80%.

Avoid direct sun as well as heat, humidity, water and other harmful influences.

Storage class: 11 - Combustible solids

Fire and explosion protection:

No risk of dust explosion in state of delivery. During processing explosive dust may settle by which an explosible atmosphere may be generated. Risk of explosion in the presence of settled, flammable dusts.

Ensure appropriate exhaust and ventilation at the machinery. Keep away from sources of ignition. Avoid electrostatic charge.

Fire class:

B



Fire of liquid or liquefying substances.

Specific application(s):

Risk of burns during handling with liquid (hot) product.



8. EXPOSURE LIMITATION AND CONTROL / PERSONAL PROTECTIVE EQUIPMENT

Exposure limitation and control:

Exposure limitation and control depend on the workplace and must be regulated by the user itself.

Information for the configuration of technical facilities:

Ensure good ventilation - local or room exhaust. If this is not sufficient, wear breathing protection.

Personal protective equipment:

General protective and hygiene measures:

Observe general precautionary measures during handling with chemicals. Do not eat, drink and smoke and wear protective clothing during working. Do not breathe dust. Wash hands before breaks. Take off contaminated clothing.

After contact with skin clean skin parts with water and soap or use suitable detergent. Do not use organic solvents.

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Breathing: Wear dust mask against fine dust during processing of product.



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

Hands: Wear protective gloves made of impermeable and resistant material. Wear heat resistant gloves during handling with hot material.



Eyes: Wear tight-closing safety glasses and protective screen during handling with hot material.



Body: Wear protective clothing during handling with hot material. Waxes are lubricants, danger of slipping! Wear suitable shoes. (antistatic work boots).



Limitation and control of environmental exposure:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

General:

Colour:	white
State of aggregation:	solid
Consistency:	granules
Odour:	product typical

Important facts pertaining to health and environmental protection as well as to safety:

Drop point:	48 – 56 °C
Ignitability:	The material is non inflammable.
Flash point:	inapplicable
Specific gravity (23°C):	0.93 – 0.94 g/cm ³
Solubility in water:	insoluble

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10. STABILITY AND REACTIVITY

Stability:	The product is stable under normal conditions and the recommended handling and storage conditions → item 7.
Conditions to avoid:	Keep away from sources of ignition. Avoid electrostatic charge. Avoid formation and raise of dust. Keep away from open fire and flames. In order to avoid thermal decomposition do not overheat the material.
Materials to avoid:	Strong oxidizing agents
Dangerous reactions:	The concentration of fine dust in the air may lead to risk of explosion.
Hazardous decomposition products:	In case of burning, CO, CO ₂ , flammable hydro carbons, ammonia and smoke as well as traces of nitrous gases and nitrogen oxide may be generated.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:	LD ₅₀ rat > 2,000 mg/kg Toxicological reactions are unknown provided the product is handled according to regulations and recommendations..
Irritations:	
Skin:	None known
Eye:	None known
Sensitising effects:	None known
Rating of CMR properties:	The components of these preparations do <u>not</u> fulfil the criteria for CMR-categories 1 or 2.
Further information:	There is no risk to health provided the product is handled according to regulations, in compliance with industrial hygiene and breathing of dusts and vapours is avoided.

12. ECOLOGICAL INFORMATION

Water hazard class:	1
Aquatic toxicity:	LC ₅₀ /96 h > 100 mg/l (Leuciscus idus)
Mobility:	Unknown
Persistence / Degradability:	Unknown
Bioaccumulation potential:	The stoppage of biological degradation in activated sludge is not to be expected provided the discharging is appropriate and in a low concentration.
Rating of PBT properties:	The components of this preparations do <u>not</u> fulfil the criteria to be classified as PBT or vPvB

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Other harmful effects: Unknown

Further information: Contents according to formulation:
- No heavy metals
- No VOC contents

13. DISPOSAL CONSIDERATIONS

Waste key / Waste name: According to the European list of wastes (decision 2000/532/EC), the classification of the waste key has to be specified by industry and process and conducted in cooperation of the waste producer and the local waste management companies by considering local waste disposal regulations and national regulations and laws.

Contaminated packaging: Disposal according to local and national regulations. Consult local waste management companies.

14. TRANSPORT INFORMATION

The transport should only take place in accordance with ADR for road, RID for train, IMDG for sea and ICAO/IATA for air transport.

Road / Rail transport (ADR/RID/GGVSE):
No hazardous good

Sea transport (ADNR/GGVBinSch / IMDG/GGVSea):
No hazardous good

Air transport (ICAO-TI / IATA-DGR):
No hazardous good

15. REGULATORY INFORMATION

Marking:
According to EC-Directives 67/548/EEC and 1999/45/EC:
None

According to Regulation EC/1272/2008:
None

National regulations:
Consideration of the corresponding arrangements, regulations and laws of the respective country:
Classification according to GefStoffV.: No
Hazardous Incident Ordinance (Störfall-V): Not classified
Technical instruction air (TA_{Luft}): Not classified
Water hazard class: Non hazardous to water
Information on employment constraints: None
Classification according to Ordinance on flammable liquids (VbF):
Not applicable

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International listing:

The products are listed in the following inventories:

EINECS (Europe)	TSCA (USA)	DSL (Canada)	MITI (Japan)
ECL (South-Korea)	PICCS (Philippines)	NEPA (China)	ERMA (New Zealand)

16. OTHER INFORMATION

Listing of all R and S phrases according to Directive 2001/59/EC dt. 06.08.2001:

R phrases: ---
S phrases: ---

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

H phrases: ---
P phrases: ---

Restrictions: This data is limited on the product class as described above. When processing them with other products or in special processes this data does not need to be valid

Further information: This data is based on our current knowledge, it is correct and complete. However, it shall not constitute a guarantee for any specific product features. The customer is responsible to proof the data to be suitable for his own purposes.

Sources: In-house information
EG Directives and Regulations

Documentation:

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