

MATERIAL SAFETY DATA SHEET according to 1907/2006/EC, Article 31
DEUREX® TP 590

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

1.1. Product identifier

Trade name: DEUREX® TP 590

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

Industrial use (Use category SU 3):

- Additive for water based paints and coatings

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 [HCS]:

H phrases: None.

P phrases: None.

2.2. Label elements

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

None.

2.3. Other hazards

No hazardous preparation according to:

- Directive 1999/45/EC
- Regulation EC/1272/2008
- Ordinance on Hazardous Substances (Gefahrstoffverordnung GefStoffV.).

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Chemical Identity:

Water-based emulsion of a sugar cane wax

Chemical characterisation:

CAS No.: Preparation, all components have CAS numbers.

EINECS No.: Preparation, all components are listed in the EINECS.

4. FIRST AID MEASURES

4.1. Description of first aid measures

General: Consult a doctor, if symptoms arise or in cases of doubt. In case of unconsciousness, do not infuse anything through mouth.

Skin: Take off contaminated and moistened clothing immediately. Wash affected skin with water and soap or use suitable detergents. Do not use solvents or thinners.

Eye: Remove contact lenses immediately. Keep eyelids open and rinse under clean, running water for at least 10 minutes. Seek medical advice.



Swallowing: Rinse mouth immediately. Keep victim at rest. In case of swallowing, seek medical advice! Induce vomiting only on medical advice.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Foam, dry extinguisher, carbonic acid, water spray

The product is a water based emulsion, it is incombustible and non-flammable. Use extinguisher appropriate to surrounding fire.

Unsuitable extinguishing media:

Not applicable.

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO)

5.3. Special protective equipment

Wear protective equipment appropriate to surrounding fire: fire fighters protective clothing and approved location-independent compressed air breathing apparatus.

Do not inhale explosion gases or combustion gases.



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

Wear protective clothing.

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow product to reach sewage system or any water course.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Material like cleaning clothes, paper cleaning tissues or protective clothing which is contaminated with the product may ignite spontaneous during storage.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Observe general precautionary measures during handling with chemicals. Do not eat, drink or smoke during work and wear suitable protective clothing → item 8.

Danger of slipping!



7.2. Conditions for safe storage, including any incompatibilities

Storage: Follow information on the label. Store upright and close opened containers tightly to avoid any spilling. Store away from oxidising agents.

Storage space: Dry and well-ventilated

Storage temperatures: From +6°C to +28°C (Avoid frost and temperatures above 40 °C!)

Storage class: 12 - non-flammable liquid

Fire- /

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
---	---	- no information -		

8.2. Exposure controls

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

8.3. 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.

Eye / Face protection:

Wear safety glasses with side protection or protective mask.



Skin / Body protection:

Wear industrial protective clothing and suitable shoes - danger of slipping.



Hand protection:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

Recommended thickness of the material: ^a 0.4 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

The determined penetration times according to EN 374 part III are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Breathing protection:

If spray is formed, wear breathing protection.

Protection and hygiene measures:

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

8.4. Limitation and controlling of environmental exposure

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General facts

State of aggregation: Liquid
Colour: White
Odour: Product typical

9.2. Other facts

Boiling point: >200 °C
Flashpoint: > 200 °C
Ignitability: Not applicable
Explosion limit: Not applicable
Density at 20°C: ≈ 0,95 g/cm³
Vapor pressure: ≈ 0.01 hPa
(at 20°C)
pH-Value: 6 – 8

10. STABILITY AND REACTIVITY

10.1. Reactivity

The product is stable under normal conditions and recommended handling and storage conditions → Chapter 7.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3. Materials to avoid:

Material like cleaning clothes, paper cleaning tissues or protective clothing which is contaminated with the product may ignite spontaneous during storage.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Danger of toxic fluorine based pyrolysis products.

Additional information:

When heated, gaseous decomposition products may be generated from PTFE, which can cause "fluoropolymer fever" on inhalation. Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity: Unknown

Irritation Skin: Unknown

Irritation Eyes: Unknown

Sensitising effect: Unknown

Rating of the

CMR-properties: The components of these preparations do not fulfil the criteria for CMR categories 1 or 2.

Further information: No further toxicological data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bio accumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bio accumulative/toxic) criteria or the vPvB (very persistent/very bio accumulative) criteria.

Self classification.

12.6 Other adverse effects: No further relevant information available.

13. DISPOSAL CONSIDERATION

13.1. Waste treatment methods

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 the local waste disposal regulations and national laws and regulations.

13.2. Contaminated packaging

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

14. TRANSPORT INFORMATION

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

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

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

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Labelling:

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.

Hazardous Incident Ordinance (Störfall-V):

Not applicable

Technical Instruction Air (TA-Luft):

Not applicable

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

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

H phrases: None

P phrases: None

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
EC-Directives / EC-Regulations