DEUREX
THE WAX COMPANY

DEUREX H 7480 M

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1. Product identifier
Trade name/designation:

DEUREX H 7480 M

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture:
Additive

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

DEUREX AG
Dr.-Bergius-Str. 8 – 12
06729 Elsteraue
Germany
Telephone: +49(0)3441 / 8 29 29 29
Telefax: +49(0)3441 / 8 29 29 28
E-mail: info@deurex.com
Website: www.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, 24h: +49(0)361-730730

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
According to EC directives or the corresponding national regulations the product does not have to be labelled.
Hazard statements: none
Supplemental hazard information: none
Precautionary statements: none
Additional information:
The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

2.3. Other hazards
No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Description:
Hybrid wax
Additional information:
Micronized Powder

DEUREX H 7480 M

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:
Provide fresh air.

After eye contact:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion:
Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

May cause respiratory irritation. No known symptoms to date.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water, Foam, Dry extinguishing powder

Unsuitable extinguishing media:
Strong water jet, Full water jet

5.2. Special hazards arising from the substance or mixture

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Hazardous combustion products:
In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:
Avoid breathing dust/fume/gas/mist/vapours/spray. Remove persons to safety.

Protective equipment:
Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:
Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

DEUREX H 7480 M

6.3. Methods and material for containment and cleaning up

For containment:
Collect spillage. Measures to prevent aerosol and dust generation Wet clean or vacuum up solids.

For cleaning up:
Water (with cleaning agent)

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Wear personal protection equipment (refer to section 8). Do not breathe dust.

Fire prevent measures:
Avoid:electrostatic discharge. Avoid dust formation. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Measures to prevent aerosol and dust generation:
Dust should be exhausted directly at the point of origin. Additional measures for respiratory protection High efficiency particulate air filter (HEPA filter)

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place.
Avoid high temperatures or direct sunlight.

Storage class (TRGS 510, Germany): 11 – Combustible solids that cannot be assigned to any of the above storage classes

Further information on storage conditions:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Can be stored for at least 24 months if stored under the correct conditions.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:
Eye glasses with side protection EN 166

Skin protection:
Tested protective gloves must be worn EN ISO 374.
In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection:
Particle filter device (EN 143)

8.2.3. Environmental exposure controls

No data available

DEUREX H 7480 M

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid
Form: Powder
Colour: white
Odour: not determined
flammability: No data available

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	*not applicable*	
Melting point	*No data available*	
Freezing point	*not applicable*	
Initial boiling point and boiling range	*No data available*	
Evaporation rate	*No data available*	
Vapour pressure	*No data available*	
Density	0.98 – 1	② wax
Bulk density	*No data available*	
Water solubility	*No data available*	
Drop point/drop range	142 – 151 °C	② wax

particle characteristics:
No data available

9.2. Other information

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

9.2.2. Other safety characteristics

Parameter	Value	① Method ② Remark
Dust explosibility	St1	

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.4. Conditions to avoid

Safe handling: see section 7

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No known hazardous decomposition products.

DEUREX H 7480 M

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

N,N'-ethylenedi(stearamide) CAS No.: 110-30-5 EC No.: 203-755-6
LD_{50} oral: >5,000 mg/kg (rat) OECD 401
LD_{50} dermal: >15,380 mg/kg (rat) OECD 401
LC_{50} Acute inhalation toxicity (dust/mist): >2,000 mg/L 4 h (rabbit) OECD 402
Fatty acids, C16-18, zinc salts CAS No.: 91051-01-3 EC No.: 293-049-4
LD_{50} oral: >2,000 mg/kg (rat) OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD_{50} dermal: >2,000 mg/kg (rabbit)
LC_{50} Acute inhalation toxicity (dust/mist): >5.08 mg/L 4 h (rat)

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Based on available data, the classification criteria are not met.

Serious eye damage/irritation:
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:
Based on available data, the classification criteria are not met.

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

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

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

STOT-single exposure:
Based on available data, the classification criteria are not met.

STOT-repeated exposure:
Based on available data, the classification criteria are not met.

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

Additional information:
No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

N,N'-ethylenedi(stearamide) CAS No.: 110-30-5 EC No.: 203-755-6
LC_{50}: >300 mg/L 2 d
LC_{50}: 39.8 mg/L 4 d OECD 203
LC_{50}: >0.027 mg/L 4 d (fish) no data
EC_{50}: >0.053 mg/L 3 d (Algae/water plant) no data
EC_{50}: >0.002 mg/L 2 d (crustaceans, Daphnia sp.) no data
NOEC: >100 mg/L 21 d (daphnia magna) OECD 211
NOEC: >0.053 mg/L 3 d (Algae/water plant) no data
NOEC: >0.006 mg/L 21 d (crustaceans, Daphnia sp.) no data

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DEUREX H 7480 M

Fatty acids, C16-18, zinc salts CAS No.: 91051-01-3 EC No.: 293-049-4
LC_{50}: 0.112 mg/L 4 d (fish, Thymallus arcticus) American Society for testing matrials 1988: Standard practice for conducting acute toxicity tests with fishes, macroinvertebrates and amphibians, ASTM, E-729-88, Philadelphia
LC_{50}: 0.131 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
EC_{50}: 0.155 mg/L 2 d (crustaceans, Ceriodaphnia dubia) US EPA EPA 821-R-02-012. Methods for measuring the acute toxicity of effluents and receiving waters to freshwater and marine organisms, 5th Ed. (2002)
NOEC: 0.1902 mg/L 2 d (Algae/water plant, Macrocystis pyrifera (Giant Kelp), Macroalga, Lessoniaceae)
NOEC: 0.0049 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
NOEC: 0.02 mg/L 4 d (Algae/water plant, Asterionella japonica, Diatom, Fragilariaceae)
NOEC: 0.72 mg/L 56 d (fish, Salvelinus fontinalis)
NOEC: 0.1 mg/L 2 d (crustaceans, Crassostrea gigas) ASTM (1989)
NOEC: 0.014 mg/L 4 d (crustaceans, Ceriodaphnia dubia) USEPA chronic survival and reproduction of Ceriodaphnia
NOEC: 0.039 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)
NOEC: 0.05 mg/L 28 d (crustaceans, other aquatic worm: Ophryotrocha diadema, Annelid, Polychaete, Dorvilleidae)
NOEC: 0.166 mg/L 56 d (crustaceans, other aquatic arthropod: Chironomus tentans)
IC_{50}: 0.106 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
LOEC: 0.553 mg/L 2 d (Algae/water plant, Macrocystis pyrifera (Giant Kelp), Macroalga, Lessoniaceae)
LOEC: 0.02 mg/L 3 d (Algae/water plant, Chaetoceros compressum, Diatom, Chaetocerotaceae)
LOEC: 0.12 mg/L 21 d (crustaceans, Daphnia magna)

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential

N,N'-ethylenedi(stearamide) CAS No.: 110-30-5 EC No.: 203-755-6
Log K_{OW}: 13.98
Fatty acids, C16-18, zinc salts CAS No.: 91051-01-3 EC No.: 293-049-4
Log K_{OW}: 8.23
Bioconcentration factor (BCF): 96.05 Species: Danio rerio (previous name: Brachydanio rerio)

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment

N,N'-ethylenedi(stearamide) CAS No.: 110-30-5 EC No.: 203-755-6
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Fatty acids, C16-18, zinc salts CAS No.: 91051-01-3 EC No.: 293-049-4
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties
No data available

12.7. Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Consult the appropriate local waste disposal expert about waste disposal.

Waste treatment options
Appropriate disposal / Product:
Consult the appropriate local waste disposal expert about waste disposal.

DEUREX H 7480 M

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Water hazard class

WGK:

1 - slightly hazardous to water

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
EN	European Standard
HEPA	High Efficiency Particulate Air
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
NFPA	National Fire Protection Association
PBT	persistent and bioaccumulative and toxic

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REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

16.3. Key literature references and sources for data

Substance name	Type	source of supply
Fatty acids, C16-18, zinc salts CAS No.: 91051-01-3 EC No.: 293-049-4	LD_{50} oral; LD_{50} dermal; LC_{50} Acute inhalation toxicity (dust/mist); LC_{50}; EC_{50}; NOEC; IC_{50}; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/
N,N'-ethylenedi(stearamide) CAS No.: 110-30-5 EC No.: 203-755-6	LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

No data available

16.6. Training advice

No data available

16.7. Additional information

No data available