

MATERIAL SAFETY DATA SHEET according to Regulation 1907/2006/EC, Article 31
DEUREX® C 01 P, C 0118 M**SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY****1.1. Product identifier**

Trade names: DEUREX® C 01 P
DEUREX® C 0118 M

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

Relevant identified uses
Additive

1.3. Details of the supplier of the safety data sheet

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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

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) 1272/2008 [CLP]:
Serious Eye Damage/Irritation: Category 1

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Signal word:

Warning

Pictograms:

GHS07

Hazard-determining components of labelling:	Disodium dihydrogenethylenediaminetetraacetate
Hazard statements:	H332 Harmful if inhaled.
Precautionary statements:	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell.
Additional information:	Contains 5-chloro-2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.
2.3 Other hazards	Risk of dust explosion
Results of PBT and vPvB assessment:	PBT: Not applicable. vPvB: Not applicable.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 139-33-3 disodium dihydrogenethylenediaminetetraacetate Acute Tox. 4, H332 >90%

EINECS: 205-358-3

SVHC None.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General informations: Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Following inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

Following skin contact: Immediately wash with water and soap and rinse thoroughly.

Following eye contact: Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate medical attention.

Following ingestion: Rinse mouth. If you feel unwell, get medical attention.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Suitable Extinguishing media

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.

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)

Nitrogen oxides (NO_x)

5.3. Advice for firefighters

Protective equipment: Do not inhale explosion gases or combustion gases.

Additional information

Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective clothing.

6.2. Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to penetrate the ground/soil.

In case of seepage into the ground inform responsible authorities.

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

6.3. Methods and material for containment and cleaning up

Pick up mechanically.

Ensure adequate ventilation.

Dispose of the material collected according to regulations.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep away from heat and direct sunlight.
Prevent formation of dust.
Ensure good ventilation/exhaustion at the workplace.
Thorough dedusting.

Information about fire - and explosion protection:

Protect against electrostatic charges.
Dust can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions: Store in cool, dry conditions in well-sealed receptacles.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs

139-33-3 disodium dihydrogenethylenediaminetetraacetate

Oral	consumer, long-term exposure, systemic effects	25 mg/kg bw/day (human)
Inhalative	consumer, short-term exposure, local effects	1.5 mg/m ³ (human)
	worker, short-term exposure, local effects	2.5 mg/m ³ (human)

PNECs

139-33-3 disodium dihydrogenethylenediaminetetraacetate

fresh water	2.2 mg/l (not specified)
marine water	0.22 mg/l (not specified)
soil	0.72 mg/kg (not specified)

Additional information: The lists valid during the making were used as basis.

8.2. Exposure controls

8.2.2. Personal protective equipment

General protective and hygiene measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Only use chemical-protective gloves with CE-labelling of category III.

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

Recommended thickness of the material: ³ 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.

Penetration time of glove material

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.

Eye protection: Safety glasses

Body protection: Protective work clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General Information:

Appearance:

Form: Powder

Colour: White

Odour: Characteristic

Odour threshold: Not determined.

pH-value at 20 °C: Not applicable.

Change in condition:

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

Flash point: 252 °C

Flammability (solid, gaseous): Not applicable.

Ignition temperature:

Decomposition temperature: 252 °C

Self-igniting: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive dust/vapour mixtures are possible.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapour pressure: Not determined.

Density at 20 °C:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with: water:	Fully miscible.
Partition coefficient (n-octanol/water):	-4.3 log POW (shake-flash-method)
Viscosity:	
Dynamic at 20 °C:	Not applicable.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	0.0 %
VOC (EC)	0.0 %
Solids content:	100 %

9.2 Other information

No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

No decomposition if used and stored according to specifications.

10.3. Possibility of hazardous reactions

Risk of dust explosion.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects**Acute toxicity**

Harmful if inhaled.

LD/LC50 values relevant for classification:

139-33-3 disodium dihydrogenethylenediaminetetraacetate

Oral LD50 2800 mg/kg (rat) (OECD 401)

Primary irritant effect:

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.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Aquatic toxicity: **139-33-3 disodium dihydrogenethylenediaminetetraacetate**
EC50 > 100 mg/l (alga) (Desmodosmus subspicatus / 72 h)
140 mg/l (daphnia) (Daphnia magna / 48 h)

12.2 Persistence and degradability: Easily biodegradable

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Additional ecological information:

• **General notes:** Water hazard class 2 (German Regulation) (Self-assessment):
hazardous for water
Do not allow product to reach ground water, water course or
sewage system. Danger to drinking water if even small
quantities leak into the ground.

12.5 PBT/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.

SECTION 13: DISPOSAL CONSIDERATION

13.1. Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

07 01 99 wastes not otherwise specified

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 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 traffic - ADR - Rail traffic - RID -	Barge traffic - ADNR - Maritime traffic - IMDG -	Air traffic - IATA -
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 Not applicable.			
14.7. Transport in bulk according to Annex II of MARPOL73/8 and the IBC Code Not applicable.			

SECTION 15: REGULATORY INFORMATION

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

National regulations:

Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

Other regulations, limitations and prohibitive regulations

The restrictions in marketing and using of nonylphenol ethoxylates mentioned in REACH, Annex XVII and the regulation 689/2008/EC concerning the export and import of dangerous chemicals have to be observed.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

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.

Relevant phrases

H332 Harmful if inhaled.