

Safety data sheet according to Regulation (EC). No. 1907/2006

Revision date: 2023-06-05

Version: AND_6_en



1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Substance name:	Article number.:		
CAT ELISA	EA603/288	REF	AND00
BI-CAT® ELISA	EA613/192	REF	AN00
Adrenaline ELISA	EA604/96	REF	A00
Noradrenaline ELISA	EA610/96	REF	N00
Dopamine ELISA	EA608/96	REF	D00

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

Relevant identified uses:
Reagent / Immunoassay
For professional use only.

Uses advised against:
/

Details of the supplier of the safety data sheet:

Supplier

DLD Diagnostika GmbH
Gesellschaft für Diagnostika und medizinische Geräte mbH

Address

Adlerhorst 15
DE – 22459 Hamburg

Information contact

E-Mail: contact@dld-diagnostika.de
Internet: www.dld-diagnostika.de

Telephone / Fax / E-Mail

Tel +49 (0) 40-555 87 10 / Fax +49 (0) 40-555 87 111 / contact@dld-diagnostika.de

Emergency Telephone Number

Tel +49 (0) 4191-722 68 65

2. Hazards identification

Classification of the substance or mixture

Some components of this kit are containing hazardous reagents. These components are marked with the adequate hazard label:

Acylation Reagent

Enzyme Buffer

Corresponding safety data sheets: see following safety data sheets (below)

Following components (see 3. Composition/information on ingredients) contain no hazardous reagents in concentrations to be declared.

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3. Composition/information on ingredients

Microtiterstrips	Polystyrol-Microtiterplate coated with specific antigen
Standards	Diluted antigen
Controls	Diluted antigen
Antiserum	Diluted specific antiserum (rabbit), neutral buffer solution, stabilized
POD-conjugate	Diluted anti-rabbit IgG peroxidase conjugate, almost neutral buffer solution, stabilized
Wash buffer	Diluted buffer solution with detergent, neutral, concentrate
Substrate	Highly diluted TMB-solution, acidic, stabilized
Stop Solution	0.3 mol/l sulphuric acid
Extraction plate	Polystyrol-Plate coated with boronate affinity gel
Extraction buffer	Diluted buffer solution, neutral, stabilized
HCl	0.025 mol/l hydrochloric acid
Acylation buffer	Diluted buffer solution, stabilized
Foil	/
Enzyme	Catechol-O-Methyltransferase, lyophilized
Coenzyme	Diluted S-Adenosyl-L-Methionin

Components above contain no hazardous reagents in concentrations to be declared.

4. First aid measures

General informations:

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

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. If unconsciousness, bedding and transport in recovery position.

After skin contact

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

If symptoms persist consult doctor.

5. Firefighting measures

Extinguishing media

Suitable:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.



6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Environmental precautions

Dilute with plenty of water.

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

Methods and material for containment and cleaning up

Absorb with liquid-binding material.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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.

7. Handling and storage

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Always close receptacle after use.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep respiratory protective device available.

Aerosol and dust generation preventions

Open and handle receptacle with care.

Always close receptacle after use.

Environmental precautions

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

General hygiene measures

- Eating, drinking or smoking is prohibited in working areas.

- Wash hands after handling.

- Remove contaminated clothing and protective equipment before entering any food handling areas.

Conditions for safe storage, including any incompatibilities

No special requirements

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8. Exposure controls/personal protection

Occupational exposure limit sulphuric acid:

Inhalable fraction: 0,1 mg/m³

Personal protective equipment

Eye / Face protection

Tightly sealed goggles.

Skin protection

Protective Gloves

Material of gloves

Wear protective gloves of nitril or natural latex.

Other skin protection measures

Lab coat.

Respiratory protection

No special requirements.

Thermal hazards

No special requirements.

Environmental exposure controls

See sections 6 und 7.

9. Physical and chemical properties

Microtiterstrips	Polystyrol-Microtiterplate in foil packet.
Standards	Colorless liquid.
Control	Colorless liquid.
Antiserum	Colored, neutral liquid
POD-Conjugate	Yellowish-brown, almost neutral buffer solution
Wash buffer	Colorless, neutral liquid
Substrate	Slightly bluish, acidic liquid
Stop Solution	Colorless, acidic liquid, pH < 1
Extraction plate	Polystyrol-Plate in foil packet
Extraction buffer	Colored, neutral liquid
HCl	Colored, acidic liquid
Acylation buffer	Colored liquid
Foil	Adhesive foil in foil packet.
Enzyme	Lyophilized
Coenzyme	Colorless fluid.

10. Stability and reactivity

Stability of components: See Label.

Used according to intended use and stored under appropriate conditions no dangerous reactions known.

Conditions to avoid

Substrate is light-sensitive.

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11. Toxicological information

Used according to intended use no toxicological reactions known.

12. Ecological information

Used according to intended use no ecological reactions known.

13. Disposal considerations

Dispose of waste according to applicable local, state, and federal regulations.

14. Transport information

This product is not subject to official transport regulations

15. Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

National Regulations

Water hazard class

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

Further relevant regulations

/

Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

Indication of changes

Entire Revision

Key literature references and sources for data

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Further Informationen

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Substance name: Acylation Reagent

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

Relevant identified uses:

Reagent / Immunoassay

For professional use only.

Uses advised against:

/

1.3 Details of the supplier of the safety data sheet:

Supplier

DLD Diagnostika GmbH

Gesellschaft für Diagnostika und medizinische Geräte mbH

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1.4 Emergency Telephone Number

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2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:
Repr 1B; H360-D; H319

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard pictograms / Signal words:



Danger GHS08



Warning GHS07

Hazard-determining components of labelling

N,N-Dimethylformamide

Hazard statements:

H360-D May damage the unborn child.

H319 Causes serious eye irritations.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P405	Store locked up.
P501	Dispose of contents/container to applicable local, state, and federal regulations.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	IF eye irritation persists: Get medical advice/attention.

Supplemental Hazard information (EU):

/

2.3 Other hazards

/

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3. Composition/information on ingredients

3.1 Substances

This product is a mixture.

3.2 Mixture

Substance: N,N-Dimethylformamide

EG-Nr.: 200-679-5 CAS-Nr. : 68-12-2 Index-Nr.: 616-001-00-X

Content : 25 - 100%

Classification according to (EG) Nr. 1272/2008:

Repr. 1B; H360-D Acute Tox. 4; H312; H332 Eye Irrit. 2; H319 Flam. Liq. 3; H226

4. First aid measures

4.1 Description of first aid measures

General informations:

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

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. If unconsciousness, bedding and transport in recovery position.

After skin contact

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

If symptoms persist consult doctor.

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.

5. Firefighting measures

5.1 Extinguishing media

Suitable:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for fire-fighters

Protective equipment: Mount respiratory protective device.

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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

6.2 Environmental precautions

Dilute with plenty of water.

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

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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.

7. Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Always close receptacle after use.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep respiratory protective device available.

Aerosol and dust generation preventions

Open and handle receptacle with care.

Always close receptacle after use.

Environmental precautions

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

General hygiene measures

- Eating, drinking or smoking is prohibited in working areas.

- Wash hands after handling.

- Remove contaminated clothing and protective equipment before entering any food handling areas.

7.2 Conditions for safe storage, including any incompatibilities

Information about storage conditions

No special requirements.

Requirements for storage rooms and vessels

No special requirements.

Keep receptacle tightly sealed.

Storage class: /



7.3 Specific end uses

No further relevant information available.

8. Exposure controls/personal protection

8.1 Control parameters

8.1.1 Components with workplace control parameters

Limit Value Type (AGW) Germany

Substance:	N,N-Dimethylformamide, CAS-Nr. : 68-12-2
Source :	TRGS 900
Value :	10 ppm, 2(II), H, Z

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensuring good ventilation.
This can be achieved by local suction or general exhaust air.

8.2.2 Personal protective equipment

Eye / Face protection

Tightly sealed goggles.

Skin protection

Protective Gloves

Material of gloves

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. The quality of the protective gloves must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

The exact break through time: Call the manufacturer of the protective gloves and this has to be observed.

Other skin protection measures

Lab coat.

Respiratory protection

Respiratory protection: If limit value of working place is exceeded.

Thermal hazards

No special requirements.

8.2.3 Environmental exposure controls

See sections 6 und 7.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
- Form:	Liquid
- Colour:	Slight yellow
Odour:	Amine-like
Odour Threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Water solubility:	completely miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

9.2 Other safety information

/

10. Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

No data available.



11. Toxicological information

11.1 Information on toxicological effects

Substance

This product is a mixture.

Mixture

No data available for this mixture.

Acute toxicity

N,N-Dimethylformamide CAS-Nr.: 68-12-2

LD50 Oral – rat – 2,800 mg/kg

LC50 Inhalation – rat – 4 h – 9- 15 mg/l

LD50 Dermal – rabbit – 1,500 mg/kg

Irritation

Skin: No data available.

Eye: Irritating effect.

Corrosivity

No corrosive effect known.

Sensitisation

No sensitizing effects known.

Repeated dose toxicity

No data available.

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (N,N-Dimethylformamide).

Mutagenicity

Mutation in mammalian somatic cells.

Toxicity for reproduction

May cause congenital malformation in the fetus.

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

12. Ecological information

12.1 Toxicity

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

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12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

No further relevant information available.

12.6 Other adverse effects

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.

13. Disposal considerations

13.1 Waste treatment methods

Dispose of waste according to applicable local, state, and federal regulations.

Contaminated packaging

Dispose of packaging according to applicable local, state, and federal regulations.

Waste codes

Confirm precise waste code with the disposer.

Special precautions

No further relevant information available.

14. Transport information

14.1 UN number

/

14.2 UN proper shipping name

ADR/RID

No dangerous good in sense of this transport regulation.

IMDG-Code / ICAO-TI / IATA-DGR

No dangerous good in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous good in sense of this transport regulation.

14.4 Packaging group

Material with low danger.

14.5 Environmental hazards

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: ☐ yes / ☒ no

Marine Pollutant: ☐ yes / ☒ no

14.6 Special precautions for user

See sections 6 -8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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15. Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

National Regulations

Water hazard class

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

Further relevant regulations

/

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

Indication of changes

Entire Revision

Abbreviations and acronyms

PBT: persistent, bioaccumulative, toxic substance (REACH)

vPvB: very persistent, very bioaccumulative substance (REACH)

REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

CLP: Regulation on classification, labelling and packaging of substances and mixtures

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Key literature references and sources for data

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Further Informationen

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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Substance name: Enzyme Buffer

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

Relevant identified uses:

Reagent / Immunoassay

For professional use only.

Uses advised against:

/

1.3 Details of the supplier of the safety data sheet:

Supplier

DLD Diagnostika GmbH

Gesellschaft für Diagnostika und medizinische Geräte mbH

Address

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1.4 Emergency Telephone Number

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2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Eye Irrit. 2; H319 Skin Irrit. 2; H315

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard pictograms / Signal words:



Warning GHS07

Hazard-determining components of labelling

/

Hazard statements:

H319 Causes serious eye irritation.

H315 Causes skin irritation

Precautionary statements

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash before reuse.

Supplemental Hazard information (EU):

/

2.3 Other hazards

/

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3. Composition/information on ingredients

3.1 Substances

This product is a mixture.

3.2 Mixture

Substance: /

Content : 20 - 40%

Classification according to (EG) Nr. 1272/2008:

Eye Irrit. 2; H319 Skin Irrit. 2; H315

4. First aid measures

4.1 Description of first aid measures

General informations:

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

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. If unconsciousness, bedding and transport in recovery position.

After skin contact

Immediately rinse with water.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

Drink copious amounts of water and provide fresh air. Call for doctor immediately.

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.

5. Firefighting measures

5.1 Extinguishing media

Suitable:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NO_x), Carbon monoxide and carbon dioxide.

5.3 Advice for fire-fighters

Protective equipment: Mount respiratory protective device.

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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

6.2 Environmental precautions

Dilute with plenty of water.

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

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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.

7. Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Always close receptacle after use.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep respiratory protective device available.

Aerosol and dust generation preventions

Open and handle receptacle with care.

Always close receptacle after use.

Environmental precautions

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

General hygiene measures

- Eating, drinking or smoking is prohibited in working areas.

- Wash hands after handling.

- Remove contaminated clothing and protective equipment before entering any food handling areas.

7.2 Conditions for safe storage, including any incompatibilities

Information about storage conditions

No special requirements.

Requirements for storage rooms and vessels

No special requirements.

Keep receptacle tightly sealed.

Storage class: /

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7.3 Specific end uses

No further relevant information available.

8. Exposure controls/personal protection

8.1 Control parameters

8.1.1 Components with workplace control parameters

Limit Value Type (AGW) Germany

Not required.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensuring good ventilation.

This can be achieved by local suction or general exhaust air.

8.2.2 Personal protective equipment

Eye / Face protection

Tightly sealed goggles.

Skin protection

Protective Gloves

Material of gloves

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. The quality of the protective gloves must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

The exact break through time: Call the manufacturer of the protective gloves and this has to be observed.

Other skin protection measures

Lab coat.

Respiratory protection

Not required.

Thermal hazards

No special requirements.

8.2.3 Environmental exposure controls

See sections 6 und 7.



9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
- Form:	Liquid
- Colour:	Colourless
Odour:	Odourless
Odour Threshold:	No data available
pH:	8.8 – 9.4
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Water solubility:	completely miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

9.2 Other safety information

/

10. Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Avoid contact with: strong oxidizers, strong acids, strong alkali.

10.6 Hazardous decomposition products

Nitrogen oxides (NO_x), Carbon monoxide and carbon dioxide



11. Toxicological information

11.1 Information on toxicological effects

Substance

This product is a mixture.

Mixture

No data available for this mixture.

Acute toxicity

No data available.

Irritation

Skin: Irritant to skin and mucous membranes.

Eye: Irritating effect.

Corrosivity

No corrosive effect known.

Sensitisation

No sensitizing effects known.

Repeated dose toxicity

No data available.

Carcinogenicity

IARC: No component of this product present at a level greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Mutagenicity

No data available.

Toxicity for reproduction

No data available.

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

12. Ecological information

12.1 Toxicity

No further relevant information available.

12.2 Persistence and degradability

The product is easily biodegradable

12.3 Bioaccumulative potential

No further relevant information available.

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12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

No further relevant information available.

12.6 Other adverse effects

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.

13. Disposal considerations

13.1 Waste treatment methods

Dispose of waste according to applicable local, state, and federal regulations.

Contaminated packaging

Dispose of packaging according to applicable local, state, and federal regulations.

Waste codes

Confirm precise waste code with the disposer.

Special precautions

No further relevant information available.

14. Transport information

14.1 UN number

/

14.2 UN proper shipping name

ADR/RID

No dangerous good in sense of this transport regulation.

IMDG-Code / ICAO-TI / IATA-DGR

No dangerous good in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous good in sense of this transport regulation.

14.4 Packaging group

Material with low danger.

14.5 Environmental hazards

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: ☐ yes / ☒ no

Marine Pollutant: ☐ yes / ☒ no

14.6 Special precautions for user

See sections 6 -8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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15. Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

National Regulations

Water hazard class

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

Further relevant regulations

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15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

Indication of changes

Entire Revision

Abbreviations and acronyms

PBT: persistent, bioaccumulative, toxic substance (REACH)

vPvB: very persistent, very bioaccumulative substance (REACH)

REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

CLP: Regulation on classification, labelling and packaging of substances and mixtures

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Key literature references and sources for data

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Further Informationen

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.