

Trade name: DNA-2500 Separation buffer

Product no.: 292-27914-93

Current version : 1.0.1, issued: 02.09.2014

Replaced version: 1.0.0, issued: 24.04.2014

Region: GB

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

1.1 Product identifier

Trade name

DNA-2500 Separation buffer

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

Relevant identified uses of the substance or mixture

Chemical processes general

1.3 Details of the supplier of the safety data sheet

Address

Shimadzu Europa GmbH

Albert-Hahn-Str. 6-10

47269 Duisburg

Telephone no. +49 (0)203 - 7687-0

Fax no. +49 (0)203 - 711045

Information provided by / telephone

Tel.: +49 (0)203 - 7687-0

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

This product does not meet the labelling criteria given in the Directives 67/548/EWG respectively 1999/45/EC (DPD)

2.2 Label elements

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

Hazard pictograms

-

Signal word

-

Hazard statements

-

Hazard statements (EU)

EUH210 Safety data sheet available on request.

Precautionary statements

-

Labelling information

The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Buffer solution including boric acid, edta and water soluble polymer.

Trade name: DNA-2500 Separation buffer**Product no.:** 292-27914-93**Current version :** 1.0.1, issued: 02.09.2014**Replaced version:** 1.0.0, issued: 24.04.2014**Region:** GB**Hazardous ingredients**

No	Substance name	Classification	Classification (EC)	Additional information	
	CAS / EC / Index / REACH no	67/548/EEC	1272/2008 (CLP)	Concentration	%
1	boric acid				
	10043-35-3 233-139-2 005-007-00-2 -	Repr.Cat.2; R60 Repr.Cat.2; R61	Repr. 1B; H360FD	> 1.00 - < 5.00	%-b.w.

Full Text for all R-phrases , H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Repr. 1B; H360FD: C >= 5.5%	-	-

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion

Seek medical advice immediately. Drink plenty of water. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet; Carbon dioxide; Extinguishing powder; Foam

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

No data available.

5.3 Advice for firefighters

No data available.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

No data available.

Trade name: DNA-2500 Separation buffer**Product no.:** 292-27914-93**Current version :** 1.0.1, issued: 02.09.2014**Replaced version:** 1.0.0, issued: 24.04.2014**Region:** GB**SECTION 7: Handling and storage****7.1 Precautions for safe handling****General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Provide eye wash fountain in work area.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container dry in a cool, well-ventilated place. Protect from sun.

Recommended storage temperature

Value 2 - 8 °C

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

No parameters available for monitoring.

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Check in any case suitability of protective glove for the specific workplace conditions (e.g. mechanical resistance, product compatibility, antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form/Colour		
liquid		
colourless, clear		
Odour		
odourless		
Odour threshold		
No data available		
pH value		
Value	8.1	
Reference temperature	20	°C
Boiling point / boiling range		
Value	appr. 100	°C
Melting point / melting range		
No data available		
Decomposition point / decomposition range		
No data available		
Flash point		
Not applicable		

Trade name: DNA-2500 Separation buffer

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Current version : 1.0.1, issued: 02.09.2014

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Region: GB

Auto-ignition temperature	
No data available	
Oxidising properties	
No data available	
Explosive properties	
No data available	
Flammability (solid, gas)	
No data available	
Lower flammability or explosive limits	
No data available	
Upper flammability or explosive limits	
No data available	
Vapour pressure	
No data available	
Vapour density	
No data available	
Evaporation rate	
No data available	
Relative density	
No data available	
Density	
No data available	
Solubility in water	
Remarks	soluble
Solubility(ies)	
No data available	
Partition coefficient: n-octanol/water	
No data available	
Viscosity	
No data available	

9.2 Other information

Other information	
No data available.	

SECTION 10: Stability and reactivity

- 10.1 Reactivity**
No data available.
- 10.2 Chemical stability**
stable if stored and handled properly.
- 10.3 Possibility of hazardous reactions**
No data available.
- 10.4 Conditions to avoid**
No data available.
- 10.5 Incompatible materials**
Oxidizing agents
- 10.6 Hazardous decomposition products**
No data available.

Trade name: DNA-2500 Separation buffer

Product no.: 292-27914-93

Current version : 1.0.1, issued: 02.09.2014

Replaced version: 1.0.0, issued: 24.04.2014

Region: GB

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute oral toxicity				
No	Product Name			
1	DNA-2500 Separation buffer			
LD50	2.660	-	5.140	mg/kg
Species	rat			
Reference substance	boric acid			
Acute dermal toxicity				
No data available				
Acute inhalational toxicity				
No data available				
Skin corrosion/irritation				
No	Product Name			
1	DNA-2500 Separation buffer			
Reference substance	boric acid			
Evaluation	irritant			
Serious eye damage/irritation				
No	Product Name			
1	DNA-2500 Separation buffer			
Reference substance	boric acid			
Evaluation	irritant			
Respiratory or skin sensitisation				
No data available				
Germ cell mutagenicity				
No data available				
Reproduction toxicity				
No data available				
Carcinogenicity				
No data available				
STOT-single exposure				
No data available				
STOT-repeated exposure				
No data available				
Aspiration hazard				
No data available				
Other information				
Exercise customary precautions when handling chemicals.				

Trade name: DNA-2500 Separation buffer

Product no.: 292-27914-93

Current version : 1.0.1, issued: 02.09.2014

Replaced version: 1.0.0, issued: 24.04.2014

Region: GB

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)

No data available

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No data available

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information

Ecological data are not available.

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

Trade name: DNA-2500 Separation buffer

Product no.: 292-27914-93

Current version : 1.0.1, issued: 02.09.2014

Replaced version: 1.0.0, issued: 24.04.2014

Region: GB

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

EU regulations

REACH candidate list of substances of very high concern (SVHC) for authorisation

The product contains following substance(s) meeting the criteria in Article 57 in association with Article 59 of the REACH regulation 1907/2006 that are placed on the list of candidates considered for inclusion in annexe XIV (substances subject to Authorisation).

CAS no. 10043-35-3

EC no. 233-139-2

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation 1907/2006 annexe XVII.

Annex XVII no. 28, 29, 30

CAS no. 10043-35-3

EC no. 233-139-2

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 1999/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the R-, H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

R60 May impair fertility.

R61 May cause harm to the unborn child.

H360FD May damage fertility. May damage the unborn child.

Department issuing safety data sheet

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 , D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: umco@umco.de

This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Trade name: DNA-2500 Marker solution

Product no.: 292-27915-93

Current version : 1.0.1, issued: 02.09.2014

Replaced version: 1.0.0, issued: 24.04.2014

Region: GB

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

1.1 Product identifier

Trade name

DNA-2500 Marker solution

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

Relevant identified uses of the substance or mixture

Chemical processes general

1.3 Details of the supplier of the safety data sheet

Address

Shimadzu Europa GmbH

Albert-Hahn-Str. 6-10

47269 Duisburg

Telephone no. +49 (0)203 - 7687-0

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Information provided by / telephone

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Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

This product does not meet the labelling criteria given in the Directives 67/548/EWG respectively 1999/45/EC (DPD)

2.2 Label elements

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

Hazard pictograms

-

Signal word

-

Hazard statements

-

Hazard statements (EU)

EUH210 Safety data sheet available on request.

Precautionary statements

-

Labelling information

The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Buffer solution including boric acid and EDTA.

Trade name: DNA-2500 Marker solution

Product no.: 292-27915-93

Current version : 1.0.1, issued: 02.09.2014

Replaced version: 1.0.0, issued: 24.04.2014

Region: GB

Hazardous ingredients

No	Substance name	Classification	Classification (EC)	Additional information	
	CAS / EC / Index / REACH no	67/548/EEC	1272/2008 (CLP)	Concentration	%
1	boric acid				
	10043-35-3 233-139-2 005-007-00-2 -	Repr.Cat.2; R60 Repr.Cat.2; R61	Repr. 1B; H360FD	> 0.50 - < 1.00	%-b.w.

Full Text for all R-phrases, H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Repr. 1B; H360FD: C >= 5.5%	-	-

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion

Seek medical advice immediately. Drink plenty of water. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet; Carbon dioxide; Extinguishing powder; Foam

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

No data available.

5.3 Advice for firefighters

No data available.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

No data available.

Trade name: DNA-2500 Marker solution**Product no.:** 292-27915-93**Current version :** 1.0.1, issued: 02.09.2014**Replaced version:** 1.0.0, issued: 24.04.2014**Region:** GB**SECTION 7: Handling and storage****7.1 Precautions for safe handling****General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Provide eye wash fountain in work area.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container dry in a cool, well-ventilated place. Protect from sun.

Recommended storage temperature

Value -20 °C

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

No parameters available for monitoring.

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Check in any case suitability of protective glove for the specific workplace conditions (e.g. mechanical resistance, product compatibility, antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form/Colour		
liquid		
colourless, clear		
Odour		
odourless		
Odour threshold		
No data available		
pH value		
Value	8.1	
Reference temperature	20	°C
Boiling point / boiling range		
Value	appr. 100	°C
Melting point / melting range		
No data available		
Decomposition point / decomposition range		
No data available		
Flash point		
Not applicable		

Trade name: DNA-2500 Marker solution

Product no.: 292-27915-93

Current version : 1.0.1, issued: 02.09.2014

Replaced version: 1.0.0, issued: 24.04.2014

Region: GB

Auto-ignition temperature	
No data available	
Oxidising properties	
No data available	
Explosive properties	
No data available	
Flammability (solid, gas)	
No data available	
Lower flammability or explosive limits	
No data available	
Upper flammability or explosive limits	
No data available	
Vapour pressure	
No data available	
Vapour density	
No data available	
Evaporation rate	
No data available	
Relative density	
No data available	
Density	
No data available	
Solubility in water	
Remarks	soluble
Solubility(ies)	
No data available	
Partition coefficient: n-octanol/water	
No data available	
Viscosity	
No data available	

9.2 Other information

Other information	
No data available.	

SECTION 10: Stability and reactivity

- 10.1 Reactivity**
No data available.
- 10.2 Chemical stability**
stable if stored and handled properly.
- 10.3 Possibility of hazardous reactions**
No data available.
- 10.4 Conditions to avoid**
No data available.
- 10.5 Incompatible materials**
Oxidizing agents
- 10.6 Hazardous decomposition products**
No data available.

Trade name: DNA-2500 Marker solution

Product no.: 292-27915-93

Current version : 1.0.1, issued: 02.09.2014

Replaced version: 1.0.0, issued: 24.04.2014

Region: GB

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute oral toxicity				
No	Product Name			
1	DNA-2500 Marker solution			
LD50	2.660	-	5.140	mg/kg
Species	rat			
Reference substance	boric acid			
Acute dermal toxicity				
No data available				
Acute inhalational toxicity				
No data available				
Skin corrosion/irritation				
No	Product Name			
1	DNA-2500 Marker solution			
Reference substance	boric acid			
Evaluation	irritant			
Serious eye damage/irritation				
No	Product Name			
1	DNA-2500 Marker solution			
Reference substance	boric acid			
Evaluation	irritant			
Respiratory or skin sensitisation				
No data available				
Germ cell mutagenicity				
No data available				
Reproduction toxicity				
No data available				
Carcinogenicity				
No data available				
STOT-single exposure				
No data available				
STOT-repeated exposure				
No data available				
Aspiration hazard				
No data available				
Other information				
Exercise customary precautions when handling chemicals.				

Trade name: DNA-2500 Marker solution**Product no.:** 292-27915-93**Current version :** 1.0.1, issued: 02.09.2014**Replaced version:** 1.0.0, issued: 24.04.2014**Region:** GB**SECTION 12: Ecological information****12.1 Toxicity****Toxicity to fish (acute)**

No data available

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No data available

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information**Other information**

Ecological data are not available.

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

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Product no.: 292-27915-93

Current version : 1.0.1, issued: 02.09.2014

Replaced version: 1.0.0, issued: 24.04.2014

Region: GB

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

EU regulations

REACH candidate list of substances of very high concern (SVHC) for authorisation

The product contains following substance(s) meeting the criteria in Article 57 in association with Article 59 of the REACH regulation 1907/2006 that are placed on the list of candidates considered for inclusion in annexe XIV (substances subject to Authorisation).

CAS no. 10043-35-3

EC no. 233-139-2

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation 1907/2006 annexe XVII.

Annex XVII no. 28, 29, 30

CAS no. 10043-35-3

EC no. 233-139-2

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 1999/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the R-, H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

R60 May impair fertility.

R61 May cause harm to the unborn child.

H360FD May damage fertility. May damage the unborn child.

Department issuing safety data sheet

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 , D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: umco@umco.de

This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.