

# SAFETY DATA SHEET

Millipore

according to Regulation (EC) No. 1907/2006

Version 8.9 Revision Date 03.07.2024 Print Date 02.11.2024 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

| 1.1 | Product identifiers<br>Product name                   | :   | mPAGE® Lux Bis-Tris Resolving Solution   |
|-----|---|-----|--|
|     | Product Number<br>Catalogue No.<br>Brand<br>REACH No. | :   | LUXRGTRES<br>596605<br>Millipore<br>This product is a mixture. REACH Registration Number see<br>section 3. |
| 1.2 | Relevant identified u                                 | ses | of the substance or mixture and uses advised against   |

## 1.2 Relevant lucitined uses of the substance of mixture and uses duvised ugain

Identified uses : Laboratory chemicals, Manufacture of substances

## **1.3** Details of the supplier of the safety data sheet

:

Company

## 1.4 Emergency telephone

| Emergency Phone # | : | +(44)-870-8200418 (CHEMTREC (GB))  |
|-------------------|---|------------------------------------|
|                   |   | +(353)-19014670 (CHEMTREC Ireland) |
|                   |   | 001-803-017-9114 (CHEMTREC India)  |

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture Acute toxicity, (Category 4) H302: Harmful if swallowed. Skin irritation, (Category 2) H315: Causes skin irritation. Serious eye damage, (Category H318: Causes serious eye damage. 1) Skin sensitization, (Category 1) H317: May cause an allergic skin reaction. Germ cell mutagenicity, H340: May cause genetic defects. (Category 1B) Carcinogenicity, (Category 1B) H350: May cause cancer.

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Page 1 of 17

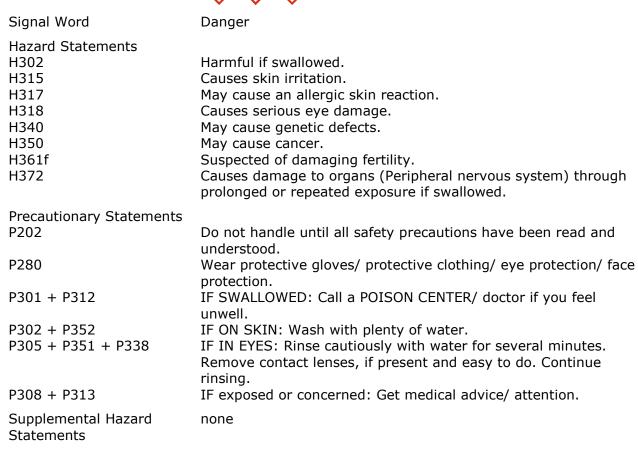
Reproductive toxicity, (Category 2)

Specific target organ toxicity repeated exposure, (Category 1), Peripheral nervous system H361f: Suspected of damaging fertility.

H372: Causes damage to organs through prolonged or repeated exposure if swallowed.

## 2.2 Label elements

# Labelling according Regulation (EC) No 1272/2008 Pictogram



Restricted to professional users.

## Reduced Labeling (<= 125 ml)

Pictogram

25 ml)

Danger

Signal Word Hazard Statements H317 H340

May cause an allergic skin reaction. May cause genetic defects.

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Page 2 of 17



| H350                              | May cause cancer.  |
|-----------------------------------|--|
| H372                              | Causes damage to organs through prolonged or repeated exposure if swallowed.   |
| H318                              | Causes serious eye damage.   |
| H361f                             | Suspected of damaging fertility.   |
| Precautionary Statements          |  |
| P202                              | Do not handle until all safety precautions have been read and understood.  |
| P280                              | Wear protective gloves/ protective clothing/ eye protection/ face protection.  |
| P302 + P352                       | IF ON SKIN: Wash with plenty of water.   |
| P305 + P351 + P338                | IF IN EYES: Rinse cautiously with water for several minutes.<br>Remove contact lenses, if present and easy to do. Continue<br>rinsing. |
| P308 + P313                       | IF exposed or concerned: Get medical advice/ attention.  |
| Supplemental Hazard<br>Statements | none   |

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

## 3.2 Mixtures

| Component   |   | Classification   | Concentration     |  |
|---|---|--|-------------------|--|
| <b>acrylamide</b> Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH) |   |  |                   |  |
| CAS-No.<br>EC-No.<br>Index-No.<br>Registration<br>number  | 79-06-1<br>201-173-7<br>616-003-00-0<br>01-2119463260-48-<br>XXXX | Acute Tox. 3; Acute Tox.<br>4; Skin Irrit. 2; Eye Irrit.<br>2; Skin Sens. 1; Muta. 1B;<br>Carc. 1B; Repr. 2; STOT<br>RE 1; H301, H332, H312,<br>H315, H319, H317, H340,<br>H350, H361f, H372 | >= 10 - < 20<br>% |  |
| 2-[Bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol  |   |  |                   |  |
| CAS-No.   | 6976-37-0   | Eye Irrit. 2; H319   | >= 3 - < 10       |  |

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Page 3 of 17

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| EC-No.<br>Registration<br>number | 230-237-7<br>01-2120768016-54-<br>XXXX |                           | %            |
|----------------------------------|--|---------------------------|--------------|
| N,N'-methylenedia                | crylamide                              |                           |              |
| CAS-No.                          | 110-26-9                               | Acute Tox. 3; Acute Tox.  | >= 0.1 - < 1 |
| EC-No.                           | 203-750-9                              | 4; Muta. 1B; Carc. 1B;    | %            |
|                                  |  | Repr. 2; STOT RE 1; H301, |              |
|                                  | *                                      | H312, H340, H350,         |              |
|                                  |  | H361fd, H372              |              |
|                                  |  |                           |              |

\*A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, or the annual tonnage does not require a registration.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

## **General advice**

Show this material safety data sheet to the doctor in attendance.

## If inhaled

After inhalation: fresh air. Call in physician.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

## **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** Foam Carbon dioxide (CO2) Dry powder

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Page 4 of 17



## Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Mixture with combustible ingredients. Development of hazardous combustion gases or vapours possible in the event of fire.

## 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
- **6.2 Environmental precautions** Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

#### **6.4 Reference to other sections** For disposal see section 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

#### Storage class

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Page 5 of 17

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Ingredients with workplace control parameters

#### 8.2 Exposure controls

## **Personal protective equipment**

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

#### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

required

**Body Protection** 

protective clothing

## **Respiratory protection**

required when vapours/aerosols are generated.

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Page 6 of 17



Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## **Control of environmental exposure**

Do not let product enter drains.

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

| a) | Physical state                                     | liquid   |
|----|--|--|
| b) | Color  | No data available  |
| c) | Odor   | No data available  |
| d) | Melting<br>point/freezing point                    | No data available  |
| e) | Initial boiling point<br>and boiling range         | No data available  |
| f) | Flammability (solid,<br>gas)                       | No data available  |
| g) | Upper/lower<br>flammability or<br>explosive limits | No data available  |
| h) | Flash point  | No data available  |
| i) | Autoignition<br>temperature                        | No data available  |
| j) | Decomposition<br>temperature                       | No data available  |
| k) | рН   | No data available  |
| I) | Viscosity  | Viscosity, kinematic: No data available<br>Viscosity, dynamic: No data available |
| m) | Water solubility                                   | No data available  |
| n) | Partition coefficient:<br>n-octanol/water          | No data available  |
| o) | Vapor pressure                                     | No data available  |
| p) | Density  | No data available  |
|    | Relative density                                   | No data available  |
| q) | Relative vapor<br>density                          | No data available  |
|    |  |  |

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Page 7 of 17

- r) Particle No data available characteristics
- s) Explosive properties Not classified as explosive.
- t) Oxidizing properties none
- **9.2 Other safety information** No data available

## SECTION 10: Stability and reactivity

#### **10.1 Reactivity**

No data available

## **10.2 Chemical stability**

Sensitivity to light The product is chemically stable under standard ambient conditions (room temperature).

## **10.3** Possibility of hazardous reactions

Violent reactions possible with: alkalines Oxidizing agents Reducing agents Bases Metals Peroxides acids

## **10.4** Conditions to avoid

no information available

- **10.5 Incompatible materials** no information available
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

## **SECTION 11: Toxicological information**

## **11.1** Information on toxicological effects

#### Mixture

#### **Acute toxicity**

Acute toxicity estimate Oral - 867.63 mg/kg (Calculation method) Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. Acute toxicity estimate Inhalation - 4 h - > 5 mg/l - dust/mist(Calculation method)

Symptoms: Possible symptoms:, mucosal irritations

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Page 8 of 17

Acute toxicity estimate Dermal - > 2,000 mg/kg (Calculation method)

**Skin corrosion/irritation** Remarks: Mixture causes skin irritation.

Serious eye damage/eye irritation Remarks: Mixture causes serious eye damage.

**Respiratory or skin sensitization** Mixture may cause an allergic skin reaction.

#### **Germ cell mutagenicity** Possible mutagen

Possible mutagen

## Carcinogenicity

Possible carcinogen.

## **Reproductive toxicity**

Evidence to impair fertility.

#### Specific target organ toxicity - single exposure No data available

## Specific target organ toxicity - repeated exposure

Mixture causes damage to organs through prolonged or repeated exposure. - Peripheral nervous system

## Aspiration hazard

No data available

## **11.2 Additional Information**

## **Endocrine disrupting properties**

## Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

No data available

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Page 9 of 17

## Components

## acrylamide

## **Acute toxicity**

LD50 Oral - Rat - female - 177 mg/kg (OECD Test Guideline 401) Acute toxicity estimate Oral - 177 mg/kg (ATE value derived from LD50/LC50 value) Acute toxicity estimate Inhalation - 1.6 mg/l - dust/mist (Expert judgment) LD50 Dermal - Rabbit - male and female - 1,141 mg/kg (OECD Test Guideline 402) Remarks: (Regulation (EC) No 1272/2008, Annex VI) Acute toxicity estimate Dermal - 1,141 mg/kg (ATE value derived from LD50/LC50 value)

## Skin corrosion/irritation

Remarks: Causes skin irritation. (Regulation (EC) No 1272/2008, Annex VI)

## Serious eye damage/eye irritation

Eyes - Rabbit Result: Eye irritation - 24 h (OECD Test Guideline 405) Remarks: (Regulation (EC) No 1272/2008, Annex VI)

## **Respiratory or skin sensitization**

Maximization Test - Guinea pig Result: positive (OECD Test Guideline 406) Remarks: (Regulation (EC) No 1272/2008, Annex VI)

## Germ cell mutagenicity

May cause genetic defects. Test Type: Ames test Test system: Salmonella typhimurium Result: negative Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells Result: positive Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Result: negative Method: OECD Test Guideline 478 Species: Rat - male Result: positive

## Carcinogenicity

Presumed to have carcinogenic potential for humans

#### **Reproductive toxicity** Suspected of damaging fertility.

## Specific target organ toxicity - single exposure No data available

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Page 10 of 17



## Specific target organ toxicity - repeated exposure

Oral - Causes damage to organs through prolonged or repeated exposure. - Peripheral nervous system

#### **Aspiration hazard**

No data available

#### 2-[Bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol

#### Acute toxicity

LD50 Oral - Rat - female - > 2,000 mg/kg (OECD Test Guideline 423) Inhalation: No data available Dermal: No data available

## Skin corrosion/irritation

Skin - reconstructed human epidermis (RhE) Result: No irritation - 15 min (OECD Test Guideline 439)

#### Serious eye damage/eye irritation

Eyes - Human Result: Eye irritation (OECD Test Guideline 492)

#### **Respiratory or skin sensitization**

Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429)

#### Germ cell mutagenicity

Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Result: negative Test Type: Mutagenicity (mammal cell test): micronucleus. Test system: Human lymphocytes Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster fibroblasts Result: Positive results were obtained in some in vitro tests.

#### Carcinogenicity

No data available

## **Reproductive toxicity**

No data available

#### Specific target organ toxicity - single exposure No data available

#### Specific target organ toxicity - repeated exposure

Aspiration hazard No data available

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Page 11 of 17



## N,N'-methylenediacrylamide

## **Acute toxicity**

LD50 Oral - Rat - female - 50 - 300 mg/kg (OECD Test Guideline 423) Inhalation: No data available LD50 Dermal - Rabbit - male and female - 1,141 mg/kg (OECD Test Guideline 402) Acute toxicity estimate Dermal - 1,141 mg/kg (Calculation method)

## Skin corrosion/irritation

Skin - reconstructed human epidermis (RhE) Result: No skin irritation - 1 h (OECD Test Guideline 439)

#### Serious eye damage/eye irritation

Eyes - Mammal Result: No eye irritation - 1 h (OECD Test Guideline 437)

#### **Respiratory or skin sensitization**

Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 442B)

#### Germ cell mutagenicity

May cause genetic defects. Test Type: Ames test Test system: Salmonella typhimurium Result: positive Remarks: (National Toxicology Program) Method: OECD Test Guideline 478 Species: Rat - male Result: positive

Result: positive Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

#### Carcinogenicity

Presumed to have carcinogenic potential for humans

## **Reproductive toxicity**

Suspected of damaging the unborn child. Suspected of damaging fertility.

Specific target organ toxicity - single exposure No data available

## Specific target organ toxicity - repeated exposure

Oral - Causes damage to organs through prolonged or repeated exposure. - Peripheral nervous system

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Page 12 of 17



## **SECTION 12: Ecological information**

## **12.1 Toxicity**

**Mixture** 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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Endocrine disrupting properties Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

No data available

## Components

## acrylamide

| Toxicity to daphnia    | flow-through test EC50 - Daphnia magna (Water flea) - 98 mg/l                                       |
|------------------------|---|
| and other aquatic      | - 48 h  |
| invertebrates          | (US-EPA)  |
| Toxicity to algae      | static test NOEC - Pseudokirchneriella subcapitata - 56 mg/l -<br>72 h<br>(OECD Test Guideline 201) |
| Toxicity to bacteria   | EC50 - Photobacterium phosphoreum - 13,500 mg/l<br>Remarks: (IUCLID)                                |
| Toxicity to            | NOEC - Cyprinus carpio (Carp) - 5 mg/l - 28 d   |
| fish(Chronic toxicity) | Remarks: (ECHA)   |

## 2-[Bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol

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Page 13 of 17

| Toxicity to fish  | static test LC50 - Danio rerio (zebra fish) - > 100 mg/l  - 96 h<br>(OECD Test Guideline 203)  |  |
|---|--|--|
| Toxicity to daphnia<br>and other aquatic<br>invertebrates | static test EC50 - Daphnia magna (Water flea) - > 100 mg/l -<br>48 h<br>(OECD Test Guideline 202)  |  |
| Toxicity to algae   | static test ErC50 - Pseudokirchneriella subcapitata (green<br>algae) - > 100 mg/l - 72 h<br>(OECD Test Guideline 201)  |  |
| Toxicity to bacteria                                      | static test EC10 - activated sludge - > 1,000 mg/l - 3 h<br>(OECD Test Guideline 209)  |  |
| N,N'-methylenediacrylan                                   | nide   |  |
| Toxicity to fish  | NOEC - Danio rerio (zebra fish) - 100 mg/l - 96 h<br>(OECD Test Guideline 203)<br>LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h<br>(OECD Test Guideline 203) |  |
| Toxicity to algae   | static test NOEC - Raphidocelis subcapitata (freshwater green<br>alga) - 100 mg/l - 72 h<br>(OECD Test Guideline 201)  |  |

# SECTION 13: Disposal considerations

**13.1 Waste treatment methods** No data available

| SECTION 14: Transport information   |                           |          |            |
|---|---------------------------|----------|------------|
| <b>14.1 UN number</b><br>ADR/RID: -   | IMDG: -                   | IATA: -  |            |
| <b>14.2 UN proper shipping name</b><br>ADR/RID: Not dangerous goods<br>IMDG: Not dangerous goods<br>IATA: Not dangerous goods |                           |          |            |
| 14.3 Transport hazard class(es)<br>ADR/RID: -   | IMDG: -                   | IATA: -  |            |
| 14.4 Packaging group<br>ADR/RID: -  | IMDG: -                   | IATA: -  |            |
| <b>14.5 Environmental hazards</b><br>ADR/RID: no  | IMDG Marine pollutant: no | IATA: no |            |
| Millipore- LUXRGTRES  |                           | Pag      | e 14 of 17 |

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## 14.6 Special precautions for user

#### **Further information**

Not classified as dangerous in the meaning of transport regulations.

#### **SECTION 15: Regulatory information**

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

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

#### Authorisations and/or restrictions on use

REACH - Candidate List of Substances of Very : acrylamide High Concern for Authorisation (Article 59). REACH - Restrictions on the manufacture, : acrylamide placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

#### **Other regulations**

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

#### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

## **SECTION 16: Other information**

## **Full text of H-Statements**

| H301   | Toxic if swallowed.  |
|--------|--|
| H312   | Harmful in contact with skin.  |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.   |
| H319   | Causes serious eye irritation.   |
| H332   | Harmful if inhaled.  |
| H340   | May cause genetic defects.   |
| H350   | May cause cancer.  |
| H361f  | Suspected of damaging fertility.   |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child.     |
| H372   | Causes damage to organs through prolonged or repeated exposure if swallowed. |

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Page 15 of 17

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## Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM -American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS -Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

| Classification of th | Classification procedure: |                    |
|----------------------|---------------------------|--------------------|
| Acute Tox.4          | H302                      | Calculation method |
| Skin Irrit.2         | H315                      | Calculation method |
| Eye Dam.1            | H318                      | Calculation method |
| Skin Sens.1          | H317                      | Calculation method |
| Muta.1B              | H340                      | Calculation method |
| Carc.1B              | H350                      | Calculation method |
| Repr.2               | H361f                     | Calculation method |
| STOT RE1             | H372                      | Calculation method |

## **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture

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Page 16 of 17

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Page 17 of 17