



## Safety Data Sheet according to Regulation (EC) No 1907/2006

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### Demi permanent Hair Dyes

Revision: 12.09.2018  
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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Demi-permanent Hair Dye

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

Intended use:

Hair Color/Toner, demi-permanent dyes

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

Nattura Laboratorios, S.A. de C.V.

Guadalajara, Jalisco. Mexico.

Pedro Martinez Rivas #746

44250 Zapopan, Jalisco. Mexico.

Phone: (+52) 38-36-38-50

##### 1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

Further information is available at Poison Control Centers.

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

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

|  |            |
|--|------------|
| Skin irritation                                    | Category 2 |
| Causes skin irritation.                            |            |
| Serious eye damage                                 | Category 1 |
| Causes serious eye damage.                         |            |
| Skin sensitizer                                    | Category 1 |
| May cause an allergic skin reaction.               |            |
| Chronic hazards to the aquatic environment         | Category 3 |
| Harmful to aquatic life with long lasting effects. |            |
| Specific target organ toxicity - single exposure   | Category 3 |

##### 2.2. Label elements (CLP)

###### Hazard pictogram:



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|  |   |
|--|---|
| <b>Signal word:</b>                            | Danger  |
| <b>Hazard statement:</b>                       | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H412 Harmful to aquatic life with long lasting effects.   |
| <b>Precautionary statement:<br/>Prevention</b> | P261 Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves.  |
| <b>Precautionary statement:<br/>Response</b>   | P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes.<br>Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.<br>P362+P364 Take off contaminated clothing and wash it before reuse. |

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

#### 3.2. Mixtures

**Hazardous substances according to CLP (EC) No 1272/2008:**

| Hazardous substances<br>CAS-No.                  | EINECS    | REACH-Reg No.    | Content        | Classification  |
|--|-----------|------------------|----------------|---|
| Ethanolamine<br>141-43-5                         | 205-483-3 | Not available    |                | H302<br>Acute toxicity 4<br>H312<br>Acute toxicity 4<br>H314<br>Skin Corr. 1B<br>H332<br>Acute toxicity 4   |
| Fatty alcohol, C16-18, ethoxylate<br>68439-49-6  |           |                  | >= 1- < 10 %   | H319<br>Serious eye irritation 2  |
| 2-methyl-p-phenylenediamine sulphate<br>615-50-9 | 210-431-8 | 01-2119962199-25 | >= 0,25- < 1 % | H301<br>Acute toxicity 3<br>H332<br>Acute toxicity 4<br>H312<br>Acute toxicity 4<br>H317<br>Skin sensitizer 1A<br>H319<br>Serious eye irritation 2<br>H373<br>Specific target organ toxicity -<br>repeated exposure 2<br>H400<br>Acute hazards to the aquatic<br>environment 1<br>H411<br>Chronic hazards to the aquatic<br>environment 2 |
| Resorcinol<br>108-46-3                           | 203-585-2 | 01-2119480136-40 | >= 0,25- < 1 % | H400<br>Acute hazards to the aquatic<br>environment 1<br>H302<br>Acute toxicity 4<br>H315<br>Skin irritation 2<br>H317<br>Skin sensitizer 1B<br>H318<br>Serious eye damage 1<br>H370<br>Specific target organ toxicity - single<br>exposure 1<br>H371<br>Specific target organ toxicity - single<br>exposure 2                            |

For full text of the H - Phrases indicated by codes only see Section 16 "Other information".

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

General information:

In case of adverse health effects seek medical advice.

Remove casualty immediately from danger zone. Take off immediately all contaminated clothing.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

**Skin contact:**

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

**Eye contact:**

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

**Ingestion:**

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

None known

### 5.2. Special hazards arising from the substance or mixture

**The release of following substances is possible in case of fire:**

Carbon oxides.

Hydrogen chloride.

Nitrogen oxides

Sulphur oxides

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

### Additional information:

Dispose of combustion residues and contaminated fire-fighting water in accordance with statutory regulations.

Collect contaminated fire fighting water separately. It must not enter drains.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

Inform authorities in the event of product spillage to water courses or sewage systems.

### 6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (chemical binder)

Dilute small quantities with large amount of water and rinse.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Handling advice:

Avoid skin and eye contact.

Fire and explosion protection information:

No special measures required if used properly.

Hygiene measures:

Do not eat, drink or smoke while working.

Immediately remove soiled or soaked clothing.

Wash hands before work breaks and after finishing work.

Keep away from food, beverages and animal feed.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in sealed original container protected against moisture.

Store far from foodstuffs.

**7.3. Specific end use(s)**

Hair Color/Toner, demi-permanent dyes

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

**Only relevant for professional/industrial use**

**8.1. Control parameters**

Valid for

Germany

| Ingredient (Regulated Substance) | ppm | mg/m3 | Value type                          | Short term exposure limit category/remarks   | Remarks  |
|----------------------------------|-----|-------|-------------------------------------|--|----------|
| Resorcinol<br>108-46-3           | 10  | 45    | Time Weighted Average (TWA):        | Indicative   | ECTLV    |
| Resorcinol<br>108-46-3           | 4   | 20    | Exposure limit(s)                   | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                                  | TRGS 900 |
| Resorcinol<br>108-46-3           |     |       | Short Term Exposure Classification: | Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. | TRGS 900 |
| Resorcinol<br>108-46-3           |     |       | Skin designation:                   | Can be absorbed through the skin.  | TRGS 900 |

## 8.2. Exposure controls

Engineering controls:  
Ensure good ventilation/suction at the workplace.

Respiratory protection:  
Not needed.

Hand protection:  
For the contact with product protective gloves made from Spezial-Nitril (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Manufacturer e.g. German company KCL, type Dermatril.

Eye protection:  
Protective goggles

Skin protection:  
Suitable protective clothing

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

The following data apply to the whole mixture:

|  |  |
|--|--|
| Appearance   | emulsion<br>high viscosity<br>characteristic |
| Odor   | Ammoniacal                                   |
| pH (20 °C (68 °F))                                       | 10,00 - 11,00                                |
| Initial boiling point                                    | Not applicable                               |
| Flash point  | Not applicable                               |
| Decomposition temperature                                | Not applicable                               |
| Vapour pressure  | Not applicable                               |
| Density (20 °C (68 °F))                                  | 0,970 - 1,030 g/cm <sup>3</sup>              |
| Bulk density   | Not applicable                               |
| Viscosity  | Not applicable                               |
| Viscosity (kinematic)                                    | Not applicable                               |
| Explosive properties                                     | Not applicable                               |
| Solubility (qualitative) (20 °C (68 °F); Solvent: Water) | Miscible                                     |
| Solidification temperature                               | Not applicable                               |
| Melting point  | Not applicable                               |
| Flammability   | Not applicable                               |
| Auto-ignition temperature                                | Not applicable                               |
| Explosive limits   | Not applicable                               |
| Partition coefficient: n-octanol/water                   | Not applicable                               |
| Evaporation rate   | Not applicable                               |
| Vapor density  | Not applicable                               |
| Oxidising properties                                     | Not applicable                               |
| Container pressure                                       | Not applicable                               |

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

None if used for intended purpose.

**10.2. Chemical stability**

None known.

**10.3. Possibility of hazardous reactions**

See section reactivity

None known.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

None known.

**SECTION 11: Toxicological information**

**General toxicological information:**

The present product is a chemical preparation within the meaning of the chemicals act. The following evaluation has been made on the basis of the toxicological data and content by weight of the individual ingredients.

**11.1. Information on toxicological effects**

**Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                        | Value<br>type | Value       | Species | Method        |
|--|---------------|-------------|---------|---------------|
| Fatty alcohol, C16-18,<br>ethoxylate<br>68439-49-6     | LD50          | 3.050 mg/kg | rat     | not specified |
| 2-methyl-<br>pphenylenediamine<br>sulphate<br>615-50-9 | LD50          | 98 mg/kg    | rat     | not specified |
| Resorcinol<br>108-46-3                                 | LD50          | 301 mg/kg   | rat     | not specified |

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value<br>type | Value       | Species | Method           |
|---------------------------------|---------------|-------------|---------|------------------|
| Resorcinol<br>108-46-3          | LD50          | 2.830 mg/kg | rabbit  | other guideline: |

**Acute inhalative toxicity:**

No data available.

**Skin corrosion/irritation:**

Primary skin irritation: irritating

| Hazardous substances<br>CAS-No.                    | Result                 | Exposure<br>time | Species | Method   |
|--|------------------------|------------------|---------|--|
| Ethanolamine<br>141-43-5                           | Causes burns           | N/A              | rabbit  | OECD Test Guideline 404  |
| Fatty alcohol, C16-18,<br>ethoxylate<br>68439-49-6 | slightly<br>irritating | 4 h              | rabbit  | EU Method B.4 (Acute Toxicity: Dermal Irritation /<br>Corrosion) |
| Resorcinol<br>108-46-3                             | irritating             | 24h              | rabbit  | Other guideline  |

**Serious eye damage/irritation:**

Primary eye irritation: irritating

| Hazardous substances<br>CAS-No. | Result                            | Exposure<br>time | Species | Method        |
|---------------------------------|-----------------------------------|------------------|---------|---------------|
| Ethanolamine<br>141-43-5        | Risk of serious<br>damage to eyes | N/A              | Rabbit  | Not specified |

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                    | Result                               | Test type                              | Species    | Method                       |
|--|--------------------------------------|--|------------|------------------------------|
| Fatty alcohol, C16-18,<br>ethoxylate<br>68439-49-6 | not sensitising                      | Guinea pig maximisation<br>test        | guinea pig | Magnusson and Kligman Method |
| Resorcinol<br>108-46-3                             | sensitising                          | Mouse local lymphonode<br>assay (LLNA) | mouse      | Not specified                |
| Ethanolamine<br>141-43-5                           | Does not cause<br>skin sensitisation | Maximisation Test                      | Guinea Pig | Literature Data              |

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                    | Result   | Type of study /<br>Route of<br>administration          | Metabolic<br>activation /<br>Exposure time | Species       | Method  |
|--|----------|--|--|---------------|---|
| Ethanolamine<br>141-43-5                           | Negative | Ames Test  | Salmonella<br>Typhimurium                  | Not available | OECD Test Guideline 471                                     |
| Ethanolamine<br>141-43-5                           | Negative | Mutagenicity   |  | Mouse         | Literature  |
| Fatty alcohol, C16-18,<br>ethoxylate<br>68439-49-6 | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |               | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay) |

**Carcinogenicity**

No data available



**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result / Value                | Test type                  | Route of<br>application    | Species | Method  |
|---------------------------------|-------------------------------|----------------------------|----------------------------|---------|---|
| Ethanolamine<br>141-43-5        | NOAEL $\geq$ 450 mg/kg bw/day |                            | Oral                       | Rat     | OECD Guideline 414  |
| Resorcinol<br>108-46-3          | NOAEL P 3.000 mg/l            | Two<br>generation<br>study | oral:<br>drinking<br>water | rat     | OECD Guideline 416 (Two<br>Generation Reproduction<br>Toxicity Study) |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture

| Hazardous substances<br>CAS-No. | Result / Value | Test type    | Route of<br>application | Species | Method   |
|---------------------------------|----------------|--------------|-------------------------|---------|--|
| Resorcinol<br>108-46-3          | NOAEL 80 mg/kg | Oral: gavage | 13 weeks<br>daily       | rat     | OECD Guideline 408<br>(Repeated Dose 90-Day<br>Oral Toxicity in Rodents) |

**Aspiration hazard:**

No data available.

## SECTION 12: Ecological information

### General ecological information:

The ecological evaluation of the product is based on data from the raw material and/or comparable substances.

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                     | Value<br>type | Value     | Exposure time | Species                | Method   |
|---|---------------|-----------|---------------|------------------------|--|
| Ethanolamine<br>141-43-5                            | LC50          | 349 mg/l  | 96 h          | Cyprinus Carpio (Carp) | Semi-Static Test                                     |
| Fatty alcohol, C16-18,<br>ethoxylate<br>68439-49-6  | LC50          | 4 mg/l    | 48 h          | Leuciscus idus         | DIN 38412-15   |
| 2-methyl-p-phenylenediamine<br>sulphate<br>615-50-9 | LC50          | 1,08 mg/l | 96h           | Danio rerio            | OECD Guideline 203<br>(Fish, Acute Toxicity Test)    |
| Resorcinol<br>108-46-3                              | LC50          | 34.7 mg/l | 96h           | Leuciscus idus         | OECD Guideline 203<br>(Fish, Acute Toxicity<br>Test) |

#### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                     | Value<br>type | Value      | Exposure time | Species       | Method   |
|---|---------------|------------|---------------|---------------|--|
| Ethanolamine<br>141-43-5                            | EC50          | 65 mg/l    | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Fatty alcohol, C16-18,<br>ethoxylate<br>68439-49-6  | EC50          | > 200 mg/l | 24 h          | Daphnia magna | not specified  |
| Resorcinol<br>108-46-3                              | EC50          | 0.8 mg/l   | 48h           | Daphnia magna |  |
| 2-methyl-p-phenylenediamine<br>sulphate<br>615-50-9 | EC50          | 0,51 mg/l  | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |

#### Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                     | Value<br>type | Value      | Exposure time | Species                    | Method   |
|---|---------------|------------|---------------|----------------------------|--|
| Ethanolamine<br>141-43-5                            | NOEC          | 0.85 mg/l  | 21d           | Daphnia Magna (Water Flea) | EPA OPPTS 850.1300<br>(Daphnid Chronic Toxicity<br>Test) |
| Resorcinol<br>108-46-3                              | NOEC          | 0.172 mg/l |               |                            |  |
| 2-methyl-p-phenylenediamine<br>sulphate<br>615-50-9 | NOEC          | 0,276 mg/l | 21 d          | Daphnia magna              | OECD 211 (Daphnia<br>magna, Reproduction Test)           |

#### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                     | Value<br>type | Value      | Exposure time | Species   | Method   |
|---|---------------|------------|---------------|---|--|
| Ethanolamine<br>141-43-5                            | ErC50         | 2.5 mg/l   | 72h           | Pseudokirchneriella subcapitata<br>(green algae)                  | OECD Test Guideline 201                              |
| Fatty alcohol, C16-18,<br>ethoxylate<br>68439-49-6  | EC50          | 65 mg/l    | 72 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus) | DIN 38412-09   |
| Resorcinol<br>108-46-3                              | EC10          | 120 mg/l   | 72h           | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus) | OECD Guideline 201 (Alga,<br>Growht Inhibition Test) |
| Resorcinol<br>108-46-3                              | EC50          | 180 mg/l   | 72h           | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus) | OECD Guideline 201 (Alga,<br>Growht Inhibition Test) |
| 2-methyl-p-phenylenediamine<br>sulphate<br>615-50-9 | EC50          | 0,653 mg/l | 72 h          | Desmodesmus subspicatus   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 2-methyl-p-phenylenediamine<br>sulphate<br>615-50-9 | NOEC          | 0,31 mg/l  | 72 h          | Desmodesmus subspicatus   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |

#### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                     | Value<br>type | Value      | Exposure time | Species  | Method   |
|---|---------------|------------|---------------|--|--|
| Fatty alcohol, C16-18,<br>ethoxylate<br>68439-49-6  | EC0           | 1.000 mg/l | 30 min        |  | not specified  |
| 2-methyl-p-phenylenediamine<br>sulphate<br>615-50-9 | EC50          | 17,7 mg/l  | 3 h           | activated sludge of a<br>predominantly domestic sewage | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |
| Resorcinol<br>108-46-3                              | EC50          | 79 mg/l    | 3h            | Activated sludge of a<br>predominantly domestic sewage | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |

#### 12.2. Persistence and degradability

| Hazardous substances<br>CAS-No.                     | Result   | Test type | Degradability | Exposure<br>time | Method  |
|---|--|-----------|---------------|------------------|---|
| Fatty alcohol, C16-18,<br>ethoxylate<br>68439-49-6  | readily biodegradable                              | aerobic   | 71 - 75 %     | 28 d             | EU Method C.4-E (Determination<br>of the "Ready"<br>Biodegradability Closed Bottle<br>Test) |
| Ethanolamine<br>141-43-5                            | Not expected considering<br>the low log Pow value. |           |               |                  | Not available   |
| Resorcinol<br>108-46-3                              | Readily biodegradable                              | aerobic   | 66.7 %        | 14 d             | OECD Guideline 301 C (Ready<br>Biodegradability: Modified MITI<br>Test (I))                 |
| Resorcinol<br>108-46-3                              | Readily biodegradable                              | aerobic   | 97%           | 4 d              | OECD Guideline 302 B (Inherent<br>biodegradability:<br>ZahnWellens/EMPA<br>Test)            |
| 2-methyl-p-phenylenediamine<br>sulphate<br>615-50-9 | inherently biodegradable                           | aerobic   | 85 %          | 28 d             | OECD Guideline 302 B (Inherent<br>biodegradability: Zahn-<br>Wellens/EMPA Test)             |
| 2-methyl-p-phenylenediamine<br>sulphate<br>615-50-9 | not readily biodegradable.                         | aerobic   | 17 %          | 28 d             | OECD Guideline 301 D (Ready<br>Biodegradability: Closed Bottle<br>Test)                     |

#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

| Hazardous substances<br>CAS-No.                  | LogPow | Temperature | Method  |
|--|--------|-------------|---|
| 2-methyl-p-phenylenediamine sulphate<br>615-50-9 | 0,74   | 20 °C       | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| Resorcinol<br>108-46-3                           | 0.8    | 20°C        | QSAR (Quantitative Structure Activity Relationship)                         |

#### 12.5. Results of PBT and vPvB assessment

| Hazardous substances<br>CAS-No.                  | PBT / vPvB  |
|--|---|
| Ethanolamine<br>141-43-5                         | This substance is not considered to be a PBT (Persistent, Bioaccumulation, Toxic)<br>This substance is not considered to be vPvB (very Persistent nor very Bioaccumulating) |
| 2-methyl-p-phenylenediamine sulphate<br>615-50-9 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.   |

#### 12.6. Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

Consider national regulations.

Special waste incineration or special disposal with the approval of the responsible local authority.

## SECTION 14: Transport information

- 14.1. UN number**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.2. UN proper shipping name**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.3. Transport hazard class(es)**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.4. Packing group**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.6. Special precautions for user**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.7. Transport in bulk according to Annex II of Marpol 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 (Germany):

|                                      |  |
|--------------------------------------|--|
| WGK:                                 | 2, water-endangering product. (German VwVwS of May 17, 1999 )  |
| Storage class according to TRGS 510: | Classification in conformity with the calculation method<br>10 |

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H290 May be corrosive to metals.  
H301 Toxic if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H370 Causes damage to organs.  
H371 May cause damage to organs.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

**Further information:**

This information is not related to the use of the product, it is based on our current level of knowledge.