

## Safety Data Sheet

### MAPEWRAP 11 NA / A

Safety Data Sheet dated: 08/12/2025 - version 7

Date of first edition: 05/26/2015



## 1. IDENTIFICATION

### Product identifier used on the label

Mixture identification:

Trade name: MAPEWRAP 11 NA / A

Trade code: 9073202

### Recommended use of the chemical and restrictions on use

Recommended use: Epoxy resins

Restrictions on use: Not available

### Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

Responsible: RDProductSafety@mapei.com

### Emergency 24 hour numbers:

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

Skin irritation, Category 2

Causes skin irritation.

Eye irritation, Category 2A

Causes serious eye irritation.

Skin Sensitization, Category 1B

May cause an allergic skin reaction.

Acute aquatic hazard, category 3

Harmful to aquatic life

Chronic (long term) aquatic hazard, category 2

Toxic to aquatic life with long lasting effects.

### Label elements

#### Hazard pictograms and Signal Word



Warning

### Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H402 Harmful to aquatic life

H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/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. Remove contact lenses, if present and easy to do. Continue rinsing.

|           |                                                                          |
|-----------|--------------------------------------------------------------------------|
| P308+P313 | IF exposed or concerned: Call a POISON CENTER/ doctor/...                |
| P314      | Get medical advice/attention if you feel unwell.                         |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention.         |
| P337+P313 | UN5\$P337+P313                                                           |
| P362+P364 | Take off contaminated clothing and wash it before reuse.                 |
| P391      | Collect spillage.                                                        |
| P501      | Dispose of contents/container in accordance with applicable regulations. |

#### Hazards associated with foreseeable chemical reactions

None

#### Ingredient(s) with unknown acute toxicity:

None

#### Hazards not otherwise classified identified during the classification process:

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

Not Relevant

#### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

#### List of components

| Qty         | Name                                                             | Ident. Numb.                                                           | Classification                                                                                                  |
|-------------|------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| ≥10 - <30 % | bis-[4-(2,3-epoxipropoxy)phenyl]propane                          | CAS:1675-54-3, 25085-99-8<br>EC:216-823-5<br>EU CLP Index:603-073-00-2 | Skin Irrit. 2, H315; Skin Sens. 1, H317;<br>Eye Irrit. 2A, H319; Aquatic Chronic 2, H411; Aquatic Acute 2, H401 |
| ≥10 - <30 % | silica sand; quartz                                              | CAS:14808-60-7<br>EC:238-878-4                                         | STOT RE 1, H372; Carc. 1A, H350                                                                                 |
| ≥3 - <7 %   | 1,6-bis(2,3-epoxypropoxy)hexane; 1,6-Hexanediol diglycidyl ether | CAS:16096-31-4<br>EC:240-260-4                                         | Eye Irrit. 2A, H319; Skin Irrit. 2, H315;<br>Aquatic Chronic 3, H412; Skin Sens. 1B, H317                       |
| ≥1 - <5 %   | formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol;   | CAS:9003-36-5<br>EC:701-263-0                                          | Skin Irrit. 2, H315; Aquatic Chronic 2, H411; Skin Sens. 1, H317                                                |

The actual concentration of the components listed above is withheld as a trade secret.

### 4. FIRST AID MEASURES

#### Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- Obtain medical attention if skin related symptoms persist.
- Remove contaminated clothing immediately and dispose of safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

#### Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages  
Skin Irritation  
Erythema

**Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:  
(see paragraph 4.1)

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO2).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: Not available
- Explosive properties: Not available
- Oxidizing properties: Not available

**Special protective equipment and precautions for fire-fighters**

- Use suitable breathing apparatus.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Move undamaged containers from immediate hazard area if it can be done safely.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

- Wear personal protection equipment.
- Remove persons to safety.
- Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
- Limit leakages with earth or sand.

**Methods and material for containment and cleaning up**

- Suitable material for taking up: absorbing material, organic, sand
- Retain contaminated washing water and dispose it.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Exercise the greatest care when handling or opening the container.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

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

- Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

- Adequately ventilated premises.

Storage temperature: Not available

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Occupational Exposure Limits (OEL)**

|                                        | OEL<br>Type | Country | Occupational Exposure Limit                                                              |
|----------------------------------------|-------------|---------|------------------------------------------------------------------------------------------|
| silica sand; quartz<br>CAS: 14808-60-7 | ACGIH       |         | Long Term: 0.025 mg/m3<br>A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis |

|       |             |                                                                            |
|-------|-------------|----------------------------------------------------------------------------|
| MAK   | AUSTRIA     | Long Term: 0.15 mg/m <sup>3</sup>                                          |
| ACGIH |             | Long Term: 0.025 mg/m <sup>3</sup><br>(R), A2 - Pulm fibrosis, lung cancer |
| MAK   | SWITZERLAND | Long Term: 0.15 mg/m <sup>3</sup>                                          |
|       | D           |                                                                            |
| EU    |             | Long Term: 0.1 mg/m <sup>3</sup><br>Behaviour Binding                      |

### Predicted No Effect Concentration (PNEC) values

formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol;  
CAS: 9003-36-5

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l

Exposure Route: Fresh Water; PNEC Limit: 0.003 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0.294 mg/kg

Exposure Route: Marine water; PNEC Limit: 0.0003 mg/l

Exposure Route: Marine water sediments; PNEC Limit: 0.0294 mg/kg

Exposure Route: Soil; PNEC Limit: 0.237 mg/kg

Appropriate engineering controls: Not available

### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                               |                   |
|-----------------------------------------------|-------------------|
| Physical state:                               | Liquid            |
| Appearance and colour:                        | paste grey        |
| Odour:                                        | characteristic    |
| Odour threshold:                              | No data available |
| pH (water dispersion, 10%):                   | No data available |
| Melting point / freezing point:               | No data available |
| Initial boiling point and boiling range:      | No data available |
| Flammability:                                 | No data available |
| Upper/lower flammability or explosive limits: | No data available |
| Flash point:                                  | 94 °C (201 °F)    |
| Vapour density:                               | No data available |
| Auto-ignition temperature:                    | No data available |
| Decomposition temperature:                    | No data available |

|                                          |                        |
|------------------------------------------|------------------------|
| pH:                                      | No data available      |
| Kinematic viscosity:                     | No data available      |
| Solubility in water:                     | insoluble              |
| Solubility in oil:                       | No data available      |
| Partition coefficient (n-octanol/water): | No data available      |
| Viscosity:                               | No data available      |
| Explosive properties:                    | No data available      |
| Oxidizing properties:                    | No data available      |
| Solid/gas flammability:                  | No data available      |
| Vapour pressure:                         | No data available      |
| Evaporation rate:                        | No data available      |
| Relative density:                        | 1.79 g/cm <sup>3</sup> |
| Relative vapour density:                 | No data available      |

#### Particle characteristics:

|                |                   |
|----------------|-------------------|
| Particle size: | No data available |
|----------------|-------------------|

#### Other information

|                                      |                   |
|--------------------------------------|-------------------|
| Substance Groups relevant properties | No data available |
| Miscibility:                         | No data available |
| Fat Solubility:                      | No data available |
| Conductivity:                        | No data available |

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological Information of the Preparation

|                                      |                                                                  |
|--------------------------------------|------------------------------------------------------------------|
| a) acute toxicity                    | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| b) skin corrosion/irritation         | The product is classified: Skin irritation, Category 2(H315)     |
| c) serious eye damage/irritation     | The product is classified: Eye irritation, Category 2A(H319)     |
| d) respiratory or skin sensitisation | The product is classified: Skin Sensitization, Category 1B(H317) |
| e) germ cell mutagenicity            | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| f) carcinogenicity                   | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| g) reproductive toxicity             | Not classified                                                   |

|                           |                                                                  |
|---------------------------|------------------------------------------------------------------|
|                           | Based on available data, the classification criteria are not met |
| h) STOT-single exposure   | Not classified                                                   |
|                           | Based on available data, the classification criteria are not met |
| i) STOT-repeated exposure | Not classified                                                   |
|                           | Based on available data, the classification criteria are not met |
| j) aspiration hazard      | Not classified                                                   |
|                           | Based on available data, the classification criteria are not met |

#### Toxicological information on main components of the mixture:

|                                                                     |                           |                                                  |
|---------------------------------------------------------------------|---------------------------|--------------------------------------------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane                             | a) acute toxicity         | LD50 Skin Rabbit = 20 mg/kg                      |
|                                                                     |                           | LD50 Oral Rat = 11300 µL/kg                      |
| silica sand; quartz                                                 | a) acute toxicity         | LD50 Oral > 2000 mg/kg<br>LD50 Skin > 2000 mg/kg |
| 1,6-bis(2,3-epoxypropoxy)hexane;<br>1,6-Hexanediol diglycidyl ether | a) acute toxicity         | LD50 Oral Rat 300 mg/kg                          |
| formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol;      | a) acute toxicity         | LD50 Oral Rat > 5000 mg/kg                       |
|                                                                     |                           | LD50 Skin Rat > 2000 mg/kg                       |
|                                                                     | i) STOT-repeated exposure | NOAEL Oral = 250 mg/kg                           |

#### Substance(s) listed on the IARC Monographs:

|                                         |         |
|-----------------------------------------|---------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Group 3 |
| silica sand; quartz                     | Group 1 |

#### Substance(s) listed as OSHA Carcinogen(s):

silica sand; quartz

#### Substance(s) listed as NIOSH Carcinogen(s):

silica sand; quartz

#### Substance(s) listed on the NTP report on Carcinogens:

silica sand; quartz

## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of Eco-Toxicological properties of the product

The product is classified: Acute aquatic hazard, category 3(H402), Chronic (long term) aquatic hazard, category 2(H411)

#### List of Eco-Toxicological properties of the components

| Component                               | Ident. Numb.                                                                     | Ecotox Data                                        |
|-----------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | CAS: 1675-54-3, a)<br>25085-99-8 -<br>EINECS: 216-823-5 - INDEX:<br>603-073-00-2 | a) Aquatic acute toxicity : LC50 Fish = 2 mg/L 96h |

formaldehyde, polymer with 2- (chloromethyl)oxirane and phenol;  
CAS: 9003-36-5  
- EINECS: 701-263-0

a) Aquatic acute toxicity : EC50 Daphnia = 1.8 mg/L 48h  
a) Aquatic acute toxicity : LC50 Fish = 5.7 mg/L 96h

a) Aquatic acute toxicity : EC50 Daphnia = 2.55 mg/L 48h  
a) Aquatic acute toxicity : EC50 Algae = 1.8 mg/L 72h

#### Persistence and degradability

N.A.

#### Bioaccumulative potential

N.A.

#### Mobility in soil

N.A.

#### Other adverse effects

N.A.

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### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

##### Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

##### Disposal considerations:

Do not allow to enter drains or watercourses.

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

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

##### Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

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### 14. TRANSPORT INFORMATION

#### UN number

DOT-UN Number: UN3082

ADR-UN number: 3082

IATA-Un number: 3082

IMDG-Un number: 3082

#### UN proper shipping name

DOT-Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (epoxy resins)

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins)

IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins)

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins)

#### Transport hazard class(es)

DOT-Hazard Class: 9

ADR-Class: 9

IATA-Class: 9

IMDG-Class: 9

#### Packing group

DOT Packing Group: III

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

#### Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: Not Applicable

DOT-RQ: No

**Transport in bulk according to IMO instruments**

N.A.

Not Applicable

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): 8, 146, 173, 335, IB3, T4, TP1, TP29

DOT-Label(s): 9

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

DOT-Limited Quantity threshold: 5 L

Road and Rail (ADR-RID) :

ADR exempt: No

ADR-Label: 9

ADR-Hazard identification number: 90

ADR-Transport category (Tunnel restriction code): 3 (E)

Air (IATA) :

IATA-Passenger Aircraft: 964

IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisioning: A97 A158 A197

Sea (IMDG) :

IMDG-Stowage and handling: Category A

IMDG-Segregation: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274 335

IMDG-EMS: F-A, S-F

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**15. REGULATORY INFORMATION**

This Safety Data Sheet has been prepared according to the Hazard Communication Standard 2024 (HCS 2024)

**USA - Federal regulations**

**TSCA - Toxic Substances Control Act**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

bis-[4-(2,3-epoxypropoxy)phenyl]propane is listed in TSCA Section 8b

silica sand; quartz is listed in TSCA Section 8b

1,6-bis(2,3-epoxypropoxy)hexane; is listed in TSCA Section 8b Section 5a - SNUR Section 12b  
1,6-Hexanediol diglycidyl ether

formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol; is listed in TSCA Section 8b

**SARA - Superfund Amendments and Reauthorization Act**

**Section 302 - Extremely Hazardous Substances:**

No substances listed

**Section 304 - Hazardous substances:**

No substances listed

**Section 313 - Toxic chemical list:**

No substances listed

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

**Substance(s) listed under CERCLA:**

No substances listed

**CAA - Clean Air Act**

**CAA listed substances:**



No substances listed

#### **CWA - Clean Water Act**

##### **CWA listed substances:**

No substances listed

#### **USA - State specific regulations**

##### **California Proposition 65**

###### **Substance(s) listed under California Proposition 65:**

silica sand; quartz                      Listed as carcinogen

##### **Massachusetts Right to know**

###### **Substance(s) listed under Massachusetts Right to know:**

silica sand; quartz

##### **Pennsylvania Right to know**

###### **Substance(s) listed under Pennsylvania Right to know:**

silica sand; quartz

##### **New Jersey Right to know**

###### **Substance(s) listed under New Jersey Right to know:**

silica sand; quartz

#### **Canada - Federal regulations**

##### **DSL - Domestic Substances List**

All the substances are listed in the DSL.

##### **NDSL - Non Domestic Substances List**

This product complies with NDSL inventory

##### **NPRI - National Pollutant Release Inventory**

###### **NPRI (National Pollutant Release Inventory) - List of substances listed.**

No substances listed

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## **16. OTHER INFORMATION**

Safety Data Sheet dated: 8/12/2025 - version 7

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

| <b>Code</b> | <b>Description</b>                                              |                                                                        |
|-------------|-----------------------------------------------------------------|------------------------------------------------------------------------|
| H315        | Causes skin irritation.                                         |                                                                        |
| H317        | May cause an allergic skin reaction.                            |                                                                        |
| H319        | Causes serious eye irritation.                                  |                                                                        |
| H350        | H350                                                            |                                                                        |
| H372        | Causes damage to organs through prolonged or repeated exposure. |                                                                        |
| H401        | Toxic to aquatic life                                           |                                                                        |
| H411        | Toxic to aquatic life with long lasting effects.                |                                                                        |
| H412        | Harmful to aquatic life with long lasting effects.              |                                                                        |
| <b>Code</b> | <b>Hazard class and hazard category</b>                         | <b>Description</b>                                                     |
| A.2/2       | Skin Irrit. 2                                                   | Skin irritation, Category 2                                            |
| A.3/2A      | Eye Irrit. 2A                                                   | Eye irritation, Category 2A                                            |
| A.4.2/1     | Skin Sens. 1                                                    | Skin Sensitization, Category 1                                         |
| A.4.2/1B    | Skin Sens. 1B                                                   | Skin Sensitization, Category 1B                                        |
| A.6/1A      | Carc. 1A                                                        | Carcinogenicity, Category 1A                                           |
| A.9/1       | STOT RE 1                                                       | Specific target organ toxicity following repeated exposure, Category 1 |
| US-HAE/A2   | Aquatic Acute 2                                                 | Acute aquatic hazard, category 2                                       |
| US-HAE/C2   | Aquatic Chronic 2                                               | Chronic (long term) aquatic hazard, category 2                         |
| US-HAE/C3   | Aquatic Chronic 3                                               | Chronic (long term) aquatic hazard, category 3                         |

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
IMDG: International Maritime Code for Dangerous Goods.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
CLP: Classification, Labeling, Packaging.  
EU CLP Index: Index number as reported in Annex VI to EU Reg. 1272/2008  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
INCI: International Nomenclature of Cosmetic Ingredients.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
DNEL: Derived No Effect Level.  
PNEC: Predicted No Effect Concentration.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
WGK: German Water Hazard Class.  
KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 14. TRANSPORT INFORMATION
- 16. OTHER INFORMATION