

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 7/18/2023 Supersedes: 4/15/2019 Version: 2.0

# **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Product name TheraCal PT Catalyst

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : For Rx Only

#### 1.3. Supplier

#### Manufacturer

BISCO, Inc.

1100 W. Irving Park Rd. Schaumburg, IL, 60193

U.S.A.

T 1-800-247-3368 or 1-847-534-6000 sales@bisco.com - www.bisco.com

## 1.4. Emergency telephone number

**Emergency number** : CHEMTREC - 24-Hour Hazmat Emergency Communications Center

Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted

# **SECTION 2: Hazard(s) identification**

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

#### **GHS US classification**

Skin corrosion/irritation Category 2 H315 Causes skin irritation H319 Serious eye damage/eye irritation Category 2 Causes serious eye irritation Skin sensitization, Category 1 H317 May cause an allergic skin reaction Specific target organ toxicity - Single exposure, Category 3, H335 May cause respiratory irritation

Respiratory tract irritation

Full text of H statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Precautionary statements (GHS US) : P261 - Avoid breathing dust, fume, vapors. P264 - Wash hands thoroughly after handling

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of water and soap

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

P312 - Call a poison center/a doctor if you feel unwell

P321 - Specific treatment (see First aid measures on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention.

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

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

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P501 - Dispose in a safe manner in accordance with local/national regulations

#### 2.3. Other hazards which do not result in classification

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

No additional information available

## **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                              | Product identifier  | %       | GHS US classification  |
|-----------------------------------|---------------------|---------|--|
| BisGMA                            | CAS-No.: 1565-94-2  | 10 - 30 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT SE 3, H335       |
| Triethylene Glycol Dimethacrylate | CAS-No.: 109-16-0   | 10 - 30 | Skin Sens. 1B, H317  |
| Barium Zirconate                  | CAS-No.: 12009-21-1 | 5 - 10  | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation), H332                             |
| Ytterbium Fluoride                | CAS-No.: 13760-80-0 | 1 - 5   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335                             |
| Benzoyl Peroxide                  | CAS-No.: 94-36-0    | < 1     | Org. Perox. B, H241<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 |

Full text of hazard classes and H-statements : see section 16

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

## 4.1. Description of first aid measures

First-aid measures general
First-aid measures after inhalation

First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

- : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
- : Remove person to fresh air and keep comfortable for breathing.
- : Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing. Wash contaminated clothing before reuse.
- : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- : Rinse mouth. Do NOT induce vomiting. Call a poison center/doctor/physician if you feel unwell.

7/18/2023 (Revision date) EN (English US) 2/12

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

# **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

## 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering

environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust, fume, vapors.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

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

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing

dust, fume, vapors. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse.

7/18/2023 (Revision date) EN (English US) 3/12

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container closed when not in use.

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

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

## 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):







#### Other information:

Flammability (solid, gas)

Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Flowable Paste.

Color : White Odor : Acrylic

Odor threshold : No data available pH : No data available Melting point : No data available Freezing point : Not applicable Boiling point : No data available Flash point : Not applicable Relative evaporation rate (butyl acetate=1) : No data available

7/18/2023 (Revision date) EN (English US) 4/12

Non flammable.

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Vapor pressure : No data available Relative vapor density at 20°C : No data available Relative density : Not applicable Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : Not applicable No data available Decomposition temperature Viscosity, kinematic Not applicable Viscosity, dynamic No data available **Explosion limits** Not applicable Explosive properties No data available Oxidizing properties : No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

## 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Benzoyl Peroxide (94-36-0)                   |  |  |
|--|--|--|
| LD50 oral rat                                | > 5000 mg/kg body weight Animal: rat, Animal sex: male   |  |
| Triethylene Glycol Dimethacrylate (109-16-0) |  |  |
| LD50 oral rat                                | 10837 mg/kg Source: NLM,THOMSON  |  |
| LD50 dermal                                  | > 2000 mg/kg body weight (US EPA, 14 day(s), Mouse, Male, Experimental value, Skin, 14 day(s)) |  |
| ATE US (oral)                                | 10837 mg/kg body weight  |  |

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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|--|--|--|--|
| Ytterbium Fluoride (13760-80-0)          |  |  |  |
| LD50 oral rat                            | > 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure) |  |  |
| Barium Zirconate (12009-21-1)            |  |  |  |
| LD50 oral rat                            | 1980 mg/kg body weight Animal: rat, Animal sex: male, Guideline: EPA OPP 81-1 (Acute Oral Toxicity)  |  |  |
| ATE US (oral)                            | 1980 mg/kg body weight   |  |  |
| ATE US (gases)                           | 4500 ppmV/4h   |  |  |
| ATE US (vapors)                          | 11 mg/l/4h   |  |  |
| ATE US (dust, mist)                      | 1.5 mg/l/4h  |  |  |
| Skin corrosion/irritation :              | Causes skin irritation.  |  |  |
| Benzoyl Peroxide (94-36-0)               |  |  |  |
| рН                                       | No data available in the literature  |  |  |
| Triethylene Glycol Dimethacrylate (109-1 | 16-0)  |  |  |
| рН                                       | 6.8 - 7.2  |  |  |
| Ytterbium Fluoride (13760-80-0)          |  |  |  |
| рН                                       | 4.53 Temp.: 20 °C  |  |  |
| Serious eye damage/irritation :          | Causes serious eye irritation.   |  |  |
| Benzoyl Peroxide (94-36-0)               |  |  |  |
| рН                                       | No data available in the literature  |  |  |
| Triethylene Glycol Dimethacrylate (109-  | 16-0)  |  |  |
| рН                                       | 6.8 - 7.2  |  |  |
| Ytterbium Fluoride (13760-80-0)          |  |  |  |
| рН                                       | 4.53 Temp.: 20 °C  |  |  |
|  | May cause an allergic skin reaction.   |  |  |
| 3  | Not classified   |  |  |
| <u> </u>                                 | Not classified   |  |  |
| Benzoyl Peroxide (94-36-0)               | 2. Not algorifiable  |  |  |
| IARC group                               | 3 - Not classifiable   |  |  |
| Triethylene Glycol Dimethacrylate (109-1 |  |  |  |
| IARC group                               | 4 - Probably not carcinogenic to humans  |  |  |
| Ytterbium Fluoride (13760-80-0)          |  |  |  |
| IARC group                               | 4 - Probably not carcinogenic to humans  |  |  |
| ,  | Not classified  May cause respiratory irritation.  |  |  |
| Ytterbium Fluoride (13760-80-0)          |  |  |  |
| STOT-single exposure                     | May cause respiratory irritation.  |  |  |
|  |  |  |  |

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| BisGMA (1565-94-2)                      |   |
|---|---|
| STOT-single exposure                    | May cause respiratory irritation.   |
| STOT-repeated exposure :                | Not classified  |
| Triethylene Glycol Dimethacrylate (109- | 16-0)   |
| LOAEC (inhalation,rat,gas,90 days)      | 350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:   |
| NOAEL (oral,rat,90 days)                | 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| NOAEC (inhalation,rat,gas,90 days)      | 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:   |
| Aspiration hazard :                     | Not classified  |
| •                                       | Not applicable  |
| Benzoyl Peroxide (94-36-0)              |   |
| Viscosity, kinematic                    | No data available (test not performed)  |
| Symptoms/effects after skin contact :   | May cause an allergic skin reaction.  |
| Symptoms/effects after eye contact :    | Eye irritation.   |

# SECTION 12: Ecological information

| SECTION 12. Ecological illiorination    |   |
|---|---|
| 12.1. Toxicity                          |   |
| Ecology - general :                     | The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.  |
| Ecology - water :                       | Toxic to aquatic life.  |
| Benzoyl Peroxide (94-36-0)              |   |
| LC50 - Fish [1]                         | 0.0602 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP)                            |
| EC50 - Crustacea [1]                    | 0.11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)                             |
| ErC50 algae                             | 0.0711 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)                  |
| Triethylene Glycol Dimethacrylate (109- | 16-0)   |
| LC50 - Fish [1]                         | 16.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)  |
| EC50 72h - Algae [1]                    | > 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)                        |
| EC50 72h - Algae [2]                    | 72.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)                         |
| ErC50 algae                             | > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) |
| LOEC (chronic)                          | 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |
| NOEC (chronic)                          | 32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| Ytterbium Fluoride (13760-80-0)         |   |
| EC50 - Crustacea [1]                    | > 0.52 mg/l Test organisms (species): Daphnia magna   |
|   |   |

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| BisGMA (1565-94-2)            |  |
|-------------------------------|--|
| LC50 - Fish [1]               | 0.537 mg/l Source: ECOSAR  |
| Barium Zirconate (12009-21-1) |  |
| EC50 - Crustacea [1]          | > 1000 mg/l Test organisms (species): Daphnia magna  |
| EC50 72h - Algae [1]          | 201.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

# 12.2. Persistence and degradability

| TheraCal PT Catalyst                         |   |  |
|--|---|--|
| Persistence and degradability                | Not established.                              |  |
| Benzoyl Peroxide (94-36-0)                   |   |  |
| Persistence and degradability                | Readily biodegradable in water.               |  |
| Triethylene Glycol Dimethacrylate (109-16-0) |   |  |
| Persistence and degradability                | Readily biodegradable in water.               |  |
| BisGMA (1565-94-2)                           |   |  |
| Persistence and degradability                | Biodegradability in water: no data available. |  |

# 12.3. Bioaccumulative potential

| TheraCal PT Catalyst                            |   |  |
|---|---|--|
| Bioaccumulative potential                       | Not established.  |  |
| Benzoyl Peroxide (94-36-0)                      |   |  |
| Partition coefficient n-octanol/water (Log Pow) | 3.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C) |  |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).  |  |
| Triethylene Glycol Dimethacrylate (109-16-0)    |   |  |
| Partition coefficient n-octanol/water (Log Pow) | 2.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)        |  |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).  |  |
| Ytterbium Fluoride (13760-80-0)                 |   |  |
| Partition coefficient n-octanol/water (Log Pow) | 0.22 Source: EPISUITE   |  |
| BisGMA (1565-94-2)                              |   |  |
| Partition coefficient n-octanol/water (Log Pow) | 4.94 (Estimated value)  |  |
| Bioaccumulative potential                       | No bioaccumulation data available.  |  |

# 12.4. Mobility in soil

| Benzoyl Peroxide (94-36-0)                                 |  |
|--|--|
| Surface tension  | No data available (test not performed)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
| Ecology - soil   | Low potential for mobility in soil.  |

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Triethylene Glycol Dimethacrylate (109-16-0)               |   |
|--|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.89 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil   | Highly mobile in soil.                              |

#### 12.5. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

#### **14.1. UN number**

Not regulated for transport

## 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not regulated Proper Shipping Name (TDG) : Not regulated Proper Shipping Name (IMDG) : Not regulated Proper Shipping Name (IATA) : Not regulated

## 14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

TDG

Transport hazard class(es) (TDG) : Not regulated

**IMDG** 

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

# 14.4. Packing group

Packing group (DOT) : Not regulated Packing group (TDG) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated

#### 14.5. Environmental hazards

Other information : No supplementary information available.

# 14.6. Special precautions for user

DOT

Not regulated

**TDG** 

Not regulated

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**IMDG** 

Not regulated

**IATA** 

Not regulated

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

Not applicable

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Dibenzoyl Peroxide, technically pure

CAS-No. 94-36-0

< 1%

#### 15.2. International regulations

#### **CANADA**

## **Benzoyl Peroxide (94-36-0)**

Listed on the Canadian DSL (Domestic Substances List)

# Triethylene Glycol Dimethacrylate (109-16-0)

Listed on the Canadian DSL (Domestic Substances List)

#### Ytterbium Fluoride (13760-80-0)

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### BisGMA (1565-94-2)

Listed on the Canadian DSL (Domestic Substances List)

# Barium Zirconate (12009-21-1)

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### **EU-Regulations**

No additional information available

# **National regulations**

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Component | State or local regulations   |
|-----------|--|
| ` '       | U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List |

# **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 7/18/2023

| Full text of h | Full text of H-phrases                |  |
|----------------|---------------------------------------|--|
| H241           | Heating may cause a fire or explosion |  |
| H302           | Harmful if swallowed                  |  |
| H315           | Causes skin irritation                |  |
| H317           | May cause an allergic skin reaction   |  |
| H319           | Causes serious eye irritation         |  |
| H332           | Harmful if inhaled                    |  |
| H335           | May cause respiratory irritation      |  |
| H400           | Very toxic to aquatic life            |  |

| Indication of changes: |  |          |                                     |
|------------------------|--|----------|-------------------------------------|
| Section                | Changed item                                     | Change   | Comments                            |
|                        | Revision date                                    | Added    | No additional information available |
|                        | Signal word (GHS US)                             | Added    | No additional information available |
|                        | Precautionary statements (GHS US)                | Modified | No additional information available |
|                        | Hazard statements (GHS US)                       | Modified | No additional information available |
|                        | Supersedes                                       | Added    | No additional information available |
|                        | Issue date                                       | Removed  | No additional information available |
| 2.1                    | GHS-US classification                            | Modified | No additional information available |
| 3                      | Composition/Information on ingredients           | Modified | No additional information available |
| 4                      | Symptoms/effects after eye contact               | Added    | No additional information available |
| 4                      | First-aid measures after ingestion               | Modified | No additional information available |
| 4                      | First-aid measures after eye contact             | Modified | No additional information available |
| 4                      | First-aid measures after skin contact            | Modified | No additional information available |
| 4                      | First-aid measures general                       | Added    | No additional information available |
| 5.2                    | Hazardous decomposition products in case of fire | Added    | No additional information available |
| 6                      | Emergency procedures                             | Modified | No additional information available |
| 7.1                    | Precautions for safe handling                    | Modified | No additional information available |
| 7.2                    | Storage conditions                               | Modified | No additional information available |

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.