

## **Safety Data Sheet**

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

#### 1.1. Product identifier

3M<sup>™</sup> Novec<sup>™</sup> 1710 Electronic Grade Coating

#### **Product Identification Numbers**

98-0212-3626-4 98-0212-3627-2

7100021360 7100021385

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

#### **Identified uses**

Protective barrier coating. For industrial use only. Not intended for use as a medical device or drug.

#### Restrictions on Use

One or more components in this material are approved for specific commercial use(s) under a U.S. EPA Low Volume Exemption. Approved commercial use(s): Protective coating for components in electronic devices. Refer to Section 15 for additional information.

3M Electronics Markets Materials Division (EMMD) will not knowingly sample, support, or sell its products for incorporation in medical and pharmaceutical products and applications in which the 3M product will be temporarily or permanently implanted into humans or animals. The customer is responsible for evaluating and determining that a 3M EMMD product is suitable and appropriate for its particular use and intended application. The conditions of evaluation, selection, and use of a 3M product can vary widely and affect the use and intended application of a 3M product. Because many of these conditions are uniquely within the user's knowledge and control, it is essential that the user evaluate and determine whether the 3M product is suitable and appropriate for a particular use and intended application, and complies with all local applicable laws, regulations, standards, and guidance.

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

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

 Telephone:
 +44 (0)1344 858 000

 E Mail:
 tox.uk@mmm.com

 Website:
 www.3M.com/uk

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

## **SECTION 2: Hazard identification**

## 2.1. Classification of the substance or mixture CLP REGULATION (EC) No 1272/2008

#### **CLASSIFICATION:**

This material is not classified as hazardous according to Regulation (EC) No. 1272/2008, as amended, on classification, labelling, and packaging of substances and mixtures.

#### 2.2. Label elements

#### CLP REGULATION (EC) No 1272/2008

Not applicable

#### 2.3. Other hazards

None known.

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

| Ingredient                      | CAS Nbr | EC No.    | REACH        | % by Wt | Classification              |
|---------------------------------|---------|-----------|--------------|---------|-----------------------------|
|                                 |         |           | Registration |         |                             |
|                                 |         |           | No.          |         |                             |
| Reaction Mass of 1,1,2,3,3,3-   |         | 422-270-2 | 01-          | 40 -    | Substance not classified as |
| hexafluoro-1-methoxy-2-         |         |           | 0000016878-  | 100     | hazardous                   |
| (trifluoromethyl)propane and    |         |           | 53           |         |                             |
| 1,1,2,2,3,3,4,4,4-nonafluoro-1- |         |           |              |         |                             |
| methoxybutane                   |         |           |              |         |                             |
| Fluoroaliphatic Polymer         | Trade   |           |              | <= 20   | Substance not classified as |
|                                 | Secret  |           |              |         | hazardous                   |

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

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

#### 4.1. Description of first aid measures

#### Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### Eye contact

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

#### If swallowed

No need for first aid is anticipated.

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

See Section 11.1 Information on toxicological effects

## 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

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

#### 5.1. Extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

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

Exposure to extreme heat can give rise to thermal decomposition.

#### **Hazardous Decomposition or By-Products**

**Substance** 

Carbon monoxide. Carbon dioxide. Hydrogen Fluoride

#### **Condition**

During combustion. During combustion. During combustion.

#### 5.3. Advice for fire-fighters

When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, tunic and trousers (leggings), bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

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

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

Ventilate the area with fresh air. Observe precautions from other sections.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

#### 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

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

#### 7.1. Precautions for safe handling

Avoid inhalation of thermal decomposition products. For industrial/occupational use only. Not for consumer sale or use. Store work clothes separately from other clothing, food and tobacco products. Avoid release to the environment. No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products.

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

Store away from strong bases.

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

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

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

#### 8.1 Control parameters

#### Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

#### **Biological limit values**

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

#### 8.2. Exposure controls

#### 8.2.1. Engineering controls

No engineering controls required.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

None required.

#### Skin/hand protection

No chemical protective gloves are required.

#### **Respiratory protection**

None required.

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

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

Physical stateLiquid.Specific Physical Form:Liquid.

Appearance/Odour Clear, colourless to slightly amber liquid; slight ethereal odour

Odour threshold No data available. PH Not applicable.

**Boiling point/boiling range** 61 °C [@ 101,324.72 Pa ]

Melting pointNot applicable.Flammability (solid, gas)Not applicable.Explosive propertiesNot classifiedOxidising propertiesNot classifiedFlash pointNo flash point

**Autoignition temperature** 405 °C [Details: ASTM E659-84]

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapour pressure

Relative density

No data available.

No data available.

26,931 Pa [@ 25 °C ]

Ref Std: WATER=1]

Water solubility < 12 ppm

Solubility- non-waterNo data available.Partition coefficient: n-octanol/waterNo data available.Evaporation rate49 [Ref Std:BUOAC=1]Vapour density8.6 [Ref Std:AIR=1]

9.2. Other information

Average particle sizeNo data available.Bulk densityNo data available.EU Volatile Organic Compounds1,226.6 g/lMolecular weightNo data available.

Percent volatile >=89 %

**Softening point** *No data available.* 

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

#### 10.2 Chemical stability

Stable.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

#### 10.4 Conditions to avoid

None known.

## 10.5 Incompatible materials

Strong bases.

Not applicable.

## 10.6 Hazardous decomposition products

| Substance                       | <b>Condition</b>                               |
|---------------------------------|--|
| Carbon monoxide.                | At elevated temperatures extreme conditions of |
|                                 | heat   |
| Carbon dioxide.                 | At elevated temperatures extreme conditions of |
|                                 | heat   |
| Hydrogen Fluoride               | At elevated temperatures extreme conditions of |
|                                 | heat   |
| Perfluoroisobutylene (PFIB).    | At elevated temperatures extreme conditions of |
|                                 | heat   |
| Toxic vapour, gas, particulate. | At elevated temperatures extreme conditions of |
|                                 | heat   |

Refer to section 5.2 for hazardous decomposition products during combustion.

If the product is exposed to extreme conditions of heat from misuse or equipment failure, toxic decomposition products that include hydrogen fluoride and perfluoroisobutylene can occur.

## **SECTION 11: Toxicological information**

The information below may not agree with the EU material classification in Section 2 and/or the ingredient

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classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

#### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation

No known health effects.

#### Skin contact

Contact with the skin during product use is not expected to result in significant irritation.

#### **Eve contact**

Contact with the eyes during product use is not expected to result in significant irritation.

#### Ingestion

No known health effects.

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### **Acute Toxicity**

| Name  | Route                              | Species | Value  |
|---|------------------------------------|---------|--|
| Overall product   | Ingestion                          |         | No data available; calculated ATE >5,000 mg/kg |
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-<br>(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-<br>methoxybutane | Dermal                             |         | LD50 estimated to be > 5,000 mg/kg             |
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-<br>(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-<br>methoxybutane | Inhalation-<br>Vapour (4<br>hours) | Rat     | LC50 > 1,000 mg/l                              |
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-<br>(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-<br>methoxybutane | Ingestion                          | Rat     | LD50 > 5,000 mg/kg                             |
| Fluoroaliphatic Polymer   | Ingestion                          | Rat     | LD50 > 2,000 mg/kg                             |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name  | Species | Value                     |
|---|---------|---------------------------|
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane | Rabbit  | No significant irritation |
| Fluoroaliphatic Polymer   | Rabbit  | No significant irritation |

## **Serious Eye Damage/Irritation**

| Name   | Species | Value                     |
|--|---------|---------------------------|
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane | Rabbit  | No significant irritation |
| and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane                             |         |                           |

#### **Skin Sensitisation**

| Name  | Species       | Value          |
|---|---------------|----------------|
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane | Guinea<br>pig | Not classified |

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## **Respiratory Sensitisation**

For the component/components, either no data is currently available or the data is not sufficient for classification.

**Germ Cell Mutagenicity** 

| Name  | Route    | Value         |
|---|----------|---------------|
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane | In Vitro | Not mutagenic |
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane | In vivo  | Not mutagenic |

#### Carcinogenicity

For the component/components, either no data is currently available or the data is not sufficient for classification.

## **Reproductive Toxicity**

Reproductive and/or Developmental Effects

| Name  | Route      | Value                                  | Species | Test result       | Exposure<br>Duration |
|---|------------|--|---------|-------------------|----------------------|
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4-nonafluoro-1-methoxybutane | Inhalation | Not classified for female reproduction | Rat     | NOAEL 129<br>mg/l | 1 generation         |
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4-nonafluoro-1-methoxybutane | Inhalation | Not classified for male reproduction   | Rat     | NOAEL 129<br>mg/l | 1 generation         |
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4-nonafluoro-1-methoxybutane | Inhalation | Not classified for development         | Rat     | NOAEL 307<br>mg/l | during<br>gestation  |

## Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name  | Route      | Target Organ(s)       | Value          | Species | Test result       | Exposure<br>Duration |
|---|------------|-----------------------|----------------|---------|-------------------|----------------------|
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane                       | Inhalation | nervous system        | Not classified | Dog     | LOAEL 913<br>mg/l | 10 minutes           |
| Reaction Mass of<br>1,1,2,3,3,3-hexafluoro-1-<br>methoxy-2-<br>(trifluoromethyl)propane<br>and 1,1,2,2,3,3,4,4,4-<br>nonafluoro-1-<br>methoxybutane | Inhalation | cardiac sensitisation | Not classified | Dog     | NOAEL 913<br>mg/l | 10 minutes           |

Specific Target Organ Toxicity - repeated exposure

| Specific Target Organ   | Specific Target Organ Toxicity - repeated exposure |                     |                |         |                   |                      |  |  |
|---|--|---------------------|----------------|---------|-------------------|----------------------|--|--|
| Name  | Route  | Target Organ(s)     | Value          | Species | Test result       | Exposure<br>Duration |  |  |
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane | Inhalation   | liver               | Not classified | Rat     | NOAEL 155<br>mg/l | 13 weeks             |  |  |
| Reaction Mass of  | Inhalation   | bone, teeth, nails, | Not classified | Rat     | NOAEL 129         | 11 weeks             |  |  |

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| 1,1,2,3,3,3-hexafluoro-1-methoxy-2-<br>(trifluoromethyl)propane<br>and 1,1,2,2,3,3,4,4,4-<br>nonafluoro-1-<br>methoxybutane  |            | and/or hair   |                |     | mg/l                        |          |
|--|------------|---|----------------|-----|-----------------------------|----------|
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2- (trifluoromethyl)propane and 1,1,2,2,3,3,4,4-nonafluoro-1-methoxybutane | Inhalation | heart   skin  <br>endocrine system  <br>gastrointestinal tract<br>  hematopoietic<br>system   immune<br>system   muscles  <br>nervous system  <br>eyes   kidney and/or<br>bladder   respiratory<br>system | Not classified | Rat | NOAEL 155<br>mg/l           | 13 weeks |
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2- (trifluoromethyl)propane and 1,1,2,2,3,3,4,4-nonafluoro-1-methoxybutane | Ingestion  | endocrine system  <br>liver   heart  <br>hematopoietic<br>system   immune<br>system   nervous<br>system   eyes  <br>kidney and/or<br>bladder   respiratory<br>system                                      | Not classified | Rat | NOAEL<br>1,000<br>mg/kg/day | 28 days  |

#### **Aspiration Hazard**

For the component/components, either no data is currently available or the data is not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

## **SECTION 12: Ecological information**

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

## 12.1. Toxicity

No product test data available.

| Material  | CAS#      | Organism       | Type                 | Exposure | Test endpoint | Test result |
|---|-----------|----------------|----------------------|----------|---------------|-------------|
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2- (trifluoromethyl)propan e and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane     | 422-270-2 | Fathead minnow | Endpoint not reached | 96 hours | LC50          | >100 mg/l   |
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2- (trifluoromethyl)propan e and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane     | 422-270-2 | Green algae    | Experimental         | 72 hours | EC50          | >100 mg/l   |
| Reaction Mass of<br>1,1,2,3,3,3-hexafluoro-<br>1-methoxy-2-<br>(trifluoromethyl)propan<br>e and 1,1,2,2,3,3,4,4,4-<br>nonafluoro-1- | 422-270-2 | Water flea     | Experimental         | 48 hours | EC50          | >100 mg/l   |

| methoxybutane   |              |             |   |          |      |           |
|---|--------------|-------------|---|----------|------|-----------|
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2- (trifluoromethyl)propan e and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane | 422-270-2    | Green algae | Experimental  | 72 hours | NOEC | >100 mg/l |
| Fluoroaliphatic<br>Polymer  | Trade Secret |             | Data not available or insufficient for classification |          |      |           |

## 12.2. Persistence and degradability

| Material                  | CAS Nbr      | Test type         | Duration | Study Type           | Test result       | Protocol                  |
|---------------------------|--------------|-------------------|----------|----------------------|-------------------|---------------------------|
| Reaction Mass of          | 422-270-2    | Experimental      |          | Photolytic half-life | 2.9 years (t 1/2) | Other methods             |
| 1,1,2,3,3,3-hexafluoro-1- |              | Photolysis        |          | (in air)             |                   |                           |
| methoxy-2-                |              |                   |          |                      |                   |                           |
| (trifluoromethyl)propane  |              |                   |          |                      |                   |                           |
| and 1,1,2,2,3,3,4,4,4-    |              |                   |          |                      |                   |                           |
| nonafluoro-1-             |              |                   |          |                      |                   |                           |
| methoxybutane             |              |                   |          |                      |                   |                           |
| Reaction Mass of          | 422-270-2    | Experimental      | 28 days  | BOD                  | 22 %              | OECD 301D - Closed bottle |
| 1,1,2,3,3,3-hexafluoro-1- |              | Biodegradation    |          |                      | BOD/ThBOD         | test                      |
| methoxy-2-                |              |                   |          |                      |                   |                           |
| (trifluoromethyl)propane  |              |                   |          |                      |                   |                           |
| and 1,1,2,2,3,3,4,4,4-    |              |                   |          |                      |                   |                           |
| nonafluoro-1-             |              |                   |          |                      |                   |                           |
| methoxybutane             |              |                   |          |                      |                   |                           |
| Fluoroaliphatic Polymer   | Trade Secret | Data not availbl- |          |                      | N/A               |                           |
|                           |              | insufficient      |          |                      |                   |                           |

## 12.3: Bioaccumulative potential

| Material  | Cas No.      | Test type   | Duration | Study Type | Test result | Protocol      |
|---|--------------|---|----------|------------|-------------|---------------|
| Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane | 422-270-2    | Experimental<br>Bioconcentration                      |          | Log Kow    | 4.0         | Other methods |
| Fluoroaliphatic Polymer   | Trade Secret | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A           |

## 12.4. Mobility in soil

Please contact manufacturer for more details

## 12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

## 12.6. Other adverse effects

| Material                | CAS Nbr      | Ozone Depletion Potential | Global Warming Potential |
|-------------------------|--------------|---------------------------|--------------------------|
| fluoroaliphatic polymer | Trade Secret | 0                         |                          |

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

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Dispose of contents/ container in accordance with the local/regional/national/international regulations.

This product has been classified as a non-hazardous waste. Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include HF. Facility must be capable of handling halogenated materials. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

#### EU waste code (product as sold)

070199 Wastes not otherwise specified

## **SECTION 14: Transportation information**

98-0212-3626-4, 98-0212-3627-2

Not hazardous for transportation

## **SECTION 15: Regulatory information**

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

#### Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA.

#### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

## **SECTION 16: Other information**

#### **Revision information:**

Company Telephone information was added.

Section 01: SAP Material Numbers information was added.

Section 1: Restrictions on use information information was added.

Section 2.1: Classification information information was deleted.

Section 2: Graphic information information was deleted.

Label: CLP Classification information was added.

Section 2: Label ingredient information information was deleted.

Risk phrase - None information was deleted.

Section 3: Composition/ Information of ingredients table information was added.

Section 3: Composition/Information of ingredients table information was deleted.

Section 3: Reference to H statement explanation in Section 016 information was added.

Section 3: Reference to R and H statement explanation in Section 16 information was deleted.

Section 3: Reference to section 15 for Nota info information was deleted.

Section 4: First aid for ingestion (swallowing) information information was modified.

- Section 4: First aid for skin contact information information was modified.
- Section 5: Fire Advice for fire fighters information information was modified.
- Section 5: Fire Extinguishing media information information was modified.
- Section 5: Hazardous combustion products table information was added.
- Section 6: Accidental release clean-up information information was modified.
- Section 6: Accidental release environmental information information was modified.
- Section 6: Accidental release personal information information was modified.
- Section 7: Conditions safe storage information was modified.
- Section 7: Precautions safe handling information information was modified.
- Section 8: Appropriate Engineering controls information information was modified.
- Section 8: BLV information was added.
- Section 8: Eye protection information information was added.
- Section 8: Eye/face protection information information was deleted.
- Section 8: Eye/face protection text information was deleted.
- Section 8: Personal Protection Eye information information was deleted.
- Section 8: Personal Protection Skin/body information information was deleted.
- Section 8: Personal Protection Skin/hand information information was modified.
- Section 8: Respiratory protection recommended respirators guide information was deleted.
- Section 8: Respiratory protection recommended respirators information information was deleted.
- Section 8: Respiratory protection recommended respirators information was deleted.
- Section 8: Respiratory protection information information was added.
- Section 8: Skin protection protective clothing information information was deleted.
- Section 8: Skin protection protective clothing text information was deleted.
- Section 8: Skin protection recommended gloves information information was deleted.
- Section 8: Skin protection recommended gloves text information was deleted.
- Section 9: Flammable limits (LEL) information information was modified.
- Section 9: Flammable limits (UEL) information information was modified.
- Section 9: Property description for optional properties information was added.
- Section 9: Property description for optional properties information was deleted.
- Section 9: Viscosity information information was modified.
- Section 10: Hazardous decomposition products during combustion text information was added.
- Section 10: Hazardous Decomposition Products information information was added.
- Section 10: Materials and conditions to avoid physical property information was added.
- Section 10: Other stability physical property information was added.
- Section 11: Acute Toxicity table information was modified.
- Section 11: Aspiration Hazard Table information was deleted.
- Section 11: Aspiration Hazard text information was added.
- Section 11: Carcinogenicity Table information was deleted.
- Section 11: Carcinogenicity text information was added.
- Section 11: Classification disclaimer information was added.
- Section 11: Classification disclaimer information was deleted.
- Section 11: Disclosed components not in tables text information was added.
- Section 11: Germ Cell Mutagenicity Table information was modified.
- Section 11: Health Effects Ingestion information information was modified.
- Section 11: Health Effects Inhalation information information was modified.
- Section 11: Health Effects Skin information information was modified.
- Section 11: Reproductive Toxicity Table information was modified.
- Section 11: Respiratory Sensitization Table information was deleted.
- Section 11: Respiratory Sensitization text information was added.
- Section 11: Serious Eye Damage/Irritation Table information was modified.
- Section 11: Skin Corrosion/Irritation Table information was modified.
- Section 11: Skin Sensitization Table information was modified.
- Section 11: Target Organs Repeated Table information was modified.
- Section 11: Target Organs Single Table information was modified.
- Section 12: Classification Warning information was added.
- Section 12: Classification Warning information was deleted.

Section 12: Component ecotoxicity information information was modified.

Prints No Data if Adverse effects information is not present information was deleted.

Section 12: No PBT/vPvB information available warning information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12:Bioccumulative potential information information was modified.

Section 13: 13.1. Waste disposal note information was modified.

Section 13: EU waste code (product as sold) information information was modified.

Section 13: Standard Phrase Category Waste GHS information was modified.

Section 15: Chemical Safety Assessment information was modified.

Section 15: Regulations - Inventories information was modified.

Section 15: Symbol information information was deleted.

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