



## Safety Data Sheet

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|                                       |                   |                         |            |
|---------------------------------------|-------------------|-------------------------|------------|
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| <b>Transportation version number:</b> | 2.00 (14/02/2011) |                         |            |

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 Scotchkote Intumescent Coating LS4000 (Part B)

#### Product Identification Numbers

GR-2000-9972-3

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

##### Identified uses

Coating.

#### 1.3. Details of the supplier of the substance or mixture

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

**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

**Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive**

##### Indication of danger

Corrosive; C; R35

For full text of R phrases, see Section 16.

#### 2.2. Label elements

**Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive**

**Symbol(s)**

### 3M Scotchkote Intumescent Coating LS4000 (Part B)



Corrosive

#### Contains:

No ingredients are assigned to the label.

#### Risk phrases

R35 Causes severe burns.

#### Safety phrases

S23C Do not breathe vapour or spray.  
S51 Use only in well ventilated areas.  
S36/37/39B Wear suitable protective clothing, gloves, and eye and face protection.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28C After contact with skin, wash immediately with plenty of water for 15 minutes.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### Notes on labelling

Nota L applied to CAS 64742-54-7. Classified as R35 based on pH.

#### 2.3. Other hazards

May cause chemical gastrointestinal burns.

### SECTION 3: Composition/information on ingredients

| Ingredient                                             | CAS Nbr    | EU Inventory     | % by Wt | Classification                                                                            |
|--------------------------------------------------------|------------|------------------|---------|-------------------------------------------------------------------------------------------|
| Phosphoric acid, C3-9-alkyl esters                     | 68515-98-0 | EINECS 271-123-7 | 65 - 80 | C:R34 (Vendor)<br><br>Met. Corr. 1, H290; Skin Corr. 1B, H314 (Vendor)                    |
| Non-Hazardous Ingredients                              | Mixture    |                  | < 20    |                                                                                           |
| Phosphoric Acid                                        | 7664-38-2  | EINECS 231-633-2 | 1 - 10  | C:R34 - Nota B (EU)<br><br>Skin Corr. 1B, H314 - Nota B (CLP)                             |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | EINECS 265-157-1 | 1 - 5   | Nota L (EU)<br>R66; R67 (Self Classified)<br><br>Nota L (CLP)<br>EUH066 (Self Classified) |

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

Please refer to section 15 for the any applicable Notas that have been applied to the above components

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

### 3M Scotchkote Intumescent Coating LS4000 (Part B)

#### Inhalation

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

#### Skin contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

#### Eye contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

#### If swallowed

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

#### 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

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

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

None inherent in this product.

#### Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u>   |
|------------------|--------------------|
| Carbon monoxide. | During combustion. |
| Carbon dioxide.  | During combustion. |

#### 5.3. Advice for fire-fighters

No unusual fire or explosion hazards are anticipated.

## SECTION 6: Accidental release measures

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

Evacuate area. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 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 metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with water. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

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#### 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

For industrial or professional use only. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

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

Store away from heat. Store away from acids. Store away from oxidising agents.

#### 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

| Ingredient      | CAS Nbr   | Agency                       | Limit type                                        | Additional comments |
|-----------------|-----------|------------------------------|---------------------------------------------------|---------------------|
| Phosphoric Acid | 7664-38-2 | Health and Safety Comm. (UK) | TWA:1 mg/m <sup>3</sup> ;STEL:2 mg/m <sup>3</sup> |                     |

Health and Safety Comm. (UK) : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

#### 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

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

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

##### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full face shield.

Indirect vented goggles.

##### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective

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clothing.

Gloves made from the following material(s) are recommended: Neoprene.

Nitrile rubber.

Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Neoprene boots.

Neoprene apron.

Apron – Nitrile

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

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

|                                        |                         |
|----------------------------------------|-------------------------|
| Physical state                         | Liquid.                 |
| Appearance/Odour                       | Odourless; Clear colour |
| Odour threshold                        | No data available.      |
| pH                                     | 2                       |
| Boiling point/boiling range            | $\geq 100$ °C           |
| Melting point                          | Not applicable.         |
| Flammability (solid, gas)              | Not applicable.         |
| Explosive properties                   | Not classified          |
| Oxidising properties                   | Not classified          |
| Flash point                            | Not applicable.         |
| Autoignition temperature               | No data available.      |
| Flammable Limits(LEL)                  | Not applicable.         |
| Flammable Limits(UEL)                  | Not applicable.         |
| Vapour pressure                        | No data available.      |
| Relative density                       | 1.41 [Ref Std:WATER=1]  |
| Water solubility                       | Complete                |
| Solubility- non-water                  | No data available.      |
| Partition coefficient: n-octanol/water | No data available.      |
| Evaporation rate                       | No data available.      |
| Vapour density                         | No data available.      |
| Decomposition temperature              | No data available.      |
| Viscosity                              | No data available.      |
| Density                                | 1.41 g/ml               |

### 9.2. Other information

|                                  |                                                                         |
|----------------------------------|-------------------------------------------------------------------------|
| Volatile organic compounds (VOC) | 22 g/l [Test Method:Estimated] [Details:EU Definition (Part A & B mix)] |
| Percent volatile                 | 20 % weight                                                             |

## 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

Heat.

Temperatures above the boiling point.

### 10.5 Incompatible materials

Alcohols.

Alkali and alkaline earth metals.

Reactive metals

Strong acids.

Strong oxidising agents.

### 10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 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

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### Skin contact

Corrosive (skin burns): Signs/symptoms may include localised redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

#### Eye contact

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

**3M Scotchkote Intumescent Coating LS4000 (Part B)****Ingestion**

May be harmful if swallowed.

Gastrointestinal corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen.

**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 ATE2,000 - 5,000 mg/kg |
| Phosphoric Acid                                        | Dermal    | Rabbit  | LD50 2,740 mg/kg                                     |
| Phosphoric Acid                                        | Ingestion | Rat     | LD50 1,530 mg/kg                                     |
| Distillates (petroleum), hydrotreated heavy paraffinic | Dermal    | Rabbit  | LD50 > 5,000 mg/kg                                   |
| Distillates (petroleum), hydrotreated heavy paraffinic | Ingestion | Rat     | LD50 > 5,000 mg/kg                                   |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                                   | Species | Value              |
|--------------------------------------------------------|---------|--------------------|
| Phosphoric Acid                                        | Rabbit  | Corrosive          |
| Distillates (petroleum), hydrotreated heavy paraffinic | Rabbit  | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name                                                   | Species                 | Value         |
|--------------------------------------------------------|-------------------------|---------------|
| Phosphoric Acid                                        | official classification | Corrosive     |
| Distillates (petroleum), hydrotreated heavy paraffinic | Rabbit                  | Mild irritant |

**Skin Sensitisation**

| Name                                                   | Species    | Value           |
|--------------------------------------------------------|------------|-----------------|
| Phosphoric Acid                                        | Human      | Not sensitizing |
| Distillates (petroleum), hydrotreated heavy paraffinic | Guinea pig | Not sensitizing |

**Respiratory Sensitisation**

| Name | Species | Value |
|------|---------|-------|
|      |         |       |

**Germ Cell Mutagenicity**

| Name                                                   | Route    | Value                                                                        |
|--------------------------------------------------------|----------|------------------------------------------------------------------------------|
| Phosphoric Acid                                        | In Vitro | Not mutagenic                                                                |
| Distillates (petroleum), hydrotreated heavy paraffinic | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                                                   | Route  | Species | Value                                                                        |
|--------------------------------------------------------|--------|---------|------------------------------------------------------------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | Dermal | Mouse   | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name            | Route     | Value                            | Species | Test result         | Exposure Duration |
|-----------------|-----------|----------------------------------|---------|---------------------|-------------------|
| Phosphoric Acid | Ingestion | Not toxic to female reproduction | Rat     | NOAEL 750 mg/kg/day | 2 generation      |
| Phosphoric Acid | Ingestion | Not toxic to male reproduction   | Rat     | NOAEL 750           | 2 generation      |

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|                 |           |                          |     |                                     |              |
|-----------------|-----------|--------------------------|-----|-------------------------------------|--------------|
| Phosphoric Acid | Ingestion | Not toxic to development | Rat | mg/kg/day<br>NOAEL 750<br>mg/kg/day | 2 generation |
|-----------------|-----------|--------------------------|-----|-------------------------------------|--------------|

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name                                                   | Route      | Target Organ(s)                   | Value                                                                        | Species | Test result         | Exposure Duration     |
|--------------------------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|---------|---------------------|-----------------------|
| Phosphoric Acid                                        | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human   | NOAEL Not available | occupational exposure |
| Distillates (petroleum), hydrotreated heavy paraffinic | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            |         | NOAEL Not available |                       |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                                   | Route      | Target Organ(s)    | Value                                                                        | Species | Test result     | Exposure Duration |
|--------------------------------------------------------|------------|--------------------|------------------------------------------------------------------------------|---------|-----------------|-------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 0.21 mg/l | 28 days           |

**Aspiration Hazard**

| Name | Value |
|------|-------|
|      |       |

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 be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity**

No product test data available.

| Material                                               | CAS Nbr    | Organism    | Type                                                  | Exposure | Test endpoint | Test result |
|--------------------------------------------------------|------------|-------------|-------------------------------------------------------|----------|---------------|-------------|
| Phosphoric Acid                                        | 7664-38-2  | Golden Orfe | Experimental                                          | 48 hours | NOEC          | 2,400 mg/l  |
| Phosphoric Acid                                        | 7664-38-2  | Water flea  | Experimental                                          | 50 hours | EC50          | 1,089 mg/l  |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 |             | Data not available or insufficient for classification |          |               |             |
| Phosphoric acid, C3-9-alkyl esters                     | 68515-98-0 |             | Data not available or insufficient for classification |          |               |             |

**12.2. Persistence and degradability**

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| Material                                               | CAS Nbr    | Test type                                             | Duration | Study Type | Test result | Protocol                  |
|--------------------------------------------------------|------------|-------------------------------------------------------|----------|------------|-------------|---------------------------|
| Phosphoric acid, C3-9-alkyl esters                     | 68515-98-0 | Estimated Biodegradation                              | 28 days  | BOD        | 60 % weight | OECD 301C - MITI test (I) |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A                       |
| Phosphoric Acid                                        | 7664-38-2  | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A                       |

**12.3 : Bioaccumulative potential**

No test data available.

| Material                                               | CAS Nbr    | Test type                                             | Duration | Study Type | Test result | Protocol |
|--------------------------------------------------------|------------|-------------------------------------------------------|----------|------------|-------------|----------|
| Phosphoric Acid                                        | 7664-38-2  | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A      |
| Phosphoric acid, C3-9-alkyl esters                     | 68515-98-0 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A      |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | 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**

No information available at this time, contact manufacturer for more details

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

See Section 11.1 Information on toxicological effects

Incinerate in a permitted waste incineration facility. Dispose of waste product in a permitted industrial waste facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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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)

08 01 11\* Waste paint and varnish containing organic solvents or other dangerous substances

## SECTION 14: Transportation information

GR-2000-9972-3

**ADR/RID:** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. LIMITED QUANTITY, (PHOSPHORIC ACID, C3-9-ALKYL ESTERS), (CONTAINS PHOSPHORIC ACID), 8., III, (E), ADR Classification Code: C1.

**IMDG-CODE:** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (PHOSPHORIC ACID, C3-9-ALKYL ESTERS), (CONTAINS PHOSPHORIC ACID), 8., III, IMDG-Code segregation code: 1 - ACIDS, LIMITED QUANTITY, EMS: FA, SB.

**ICAO/IATA:** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (PHOSPHORIC ACID, C3-9-ALKYL ESTERS), (CONTAINS PHOSPHORIC ACID), 8., III.

## SECTION 15: Regulatory information

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

#### Global inventory status

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more information. The components of this product are in compliance with the chemical notification requirements of TSCA.

### 15.2. Chemical Safety Assessment

Not applicable

## SECTION 16: Other information

### List of relevant H statements

|        |                                                       |
|--------|-------------------------------------------------------|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H290   | May be corrosive to metals.                           |
| H314   | Causes severe skin burns and eye damage.              |

### List of relevant R-phrases

|     |                                                       |
|-----|-------------------------------------------------------|
| R34 | Causes burns.                                         |
| R35 | Causes severe burns.                                  |
| R66 | Repeated exposure may cause skin dryness or cracking. |
| R67 | Vapours may cause drowsiness and dizziness.           |

### Revision information:

Revision Changes:

Section 8: Personal Protection - Skin/body information information was modified.

Section 8: Skin protection - protective clothing information information was modified.

Sections 3 and 9: Odour, colour, grade information information was modified.

Section 1: Product identification numbers heading information was modified.

Section 1: Product identification numbers information was modified.

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Section 16: List of relevant R phrase information information was modified.  
Section 3: Composition/ Information of ingredients table information was modified.  
Section 2: Indication of danger information information was modified.  
Section 9: Flammability (solid, gas) information information was modified.  
Section 2: Other hazards phrase information was modified.  
Section 2: Label remarks information was modified.  
Copyright information was modified.  
Section 11: Acute Toxicity table information was modified.  
Section 11: Carcinogenicity Table information was modified.  
Section 11: Serious Eye Damage/Irritation Table information was modified.  
Section 11: Germ Cell Mutagenicity Table information was modified.  
Section 11: Skin Sensitization Table information was modified.  
Section 11: Reproductive Toxicity Table information was modified.  
Section 11: Skin Corrosion/Irritation Table information was modified.  
Section 11: Target Organs - Repeated Table information was modified.  
Section 11: Target Organs - Single Table information was modified.  
Section 11: Health Effects - Ingestion information information was modified.  
Section 5: Fire - Extinguishing media information information was modified.  
Section 6: Accidental release personal information information was modified.  
Section 6: Accidental release clean-up information information was modified.  
Section 7: Precautions safe handling information information was modified.  
Section 7: Conditions safe storage information was modified.  
Section 8: Personal Protection - Eye information information was modified.  
Section 8: Personal Protection - Skin/hand information information was modified.  
Section 13: 13.1. Waste disposal note information was modified.  
Section 13: Standard Phrase Category Waste GHS information was modified.  
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.  
Section 2: Label ingredient information information was added.  
Section 12: Component ecotoxicity information information was added.  
Section 12: Persistence and Degradability information information was added.  
Section 12:Biocumulative potential information information was added.  
Section 12: Component Ecotoxicity table Material column header information was added.  
Section 12: Component Ecotoxicity table CAS No column header information was added.  
Section 12: Component Ecotoxicity table Organism column header information was added.  
Section 12: Component Ecotoxicity table Type column header information was added.  
Section 12: Component Ecotoxicity table Exposure column header information was added.  
Section 12: Component Ecotoxicity table End point column header information was added.  
Section 12: Component Ecotoxicity table Result column header information was added.  
Section 12: Persistence and degradability table Material column header information was added.  
Section 12: Persistence and degradability table CAS No column header information was added.  
Section 12: Persistence and degradability table Test Type column header information was added.  
Section 12: Persistence and degradability table Duration column header information was added.  
Section 12: Persistence and degradability table Test Result column header information was added.  
Section 12: Persistence and degradability table Protocol column header information was added.  
Section 12:Biocumulative potential table Material column header information was added.  
Section 12:Biocumulative potential table CAS No column header information was added.  
Section 12:Biocumulative potential table CAS No column header information was added.  
Section 12:Biocumulative potential table Test Result column header information was added.  
Section 12:Biocumulative potential table Protocol column header information was added.  
Section 12:Biocumulative potential table Test Type column header information was added.  
Section 8: Personal Protection - Respiratory Information information was added.  
Section 12: Persistence and degradability table Study Type column header information was added.  
Section 12:Biocumulative potential table Test Type column header information was added.  
Section 9: Odour Threshold information was added.  
Section 9: Solubility (non-water) information was added.

|                                                          |
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Section 09: Decomposition Temperature information was added.  
Section 10: Hazardous decomposition products during combustion text information was added.  
Section 11: Disclosed components not in tables text information was added.  
Section 8: 8.1.1 Biological limit values table heading information was added.  
Section 8: BLV information was added.  
Section 2: R phrase reference information was added.  
Label: Graphic information was added.  
Label: Graphic information was added.  
Label: Graphic Text information was added.  
Section 9: Flammability (solid, gas) information information was added.  
Section 8: Eye/face protection text information was deleted.  
Section 8: Respiratory protection - recommended respirators information was deleted.  
Section 2: Symbol information was deleted.  
Section 2: Label ingredient information information was deleted.  
Section 2: Symbols heading information was deleted.  
Section 12: Acute aquatic hazard information information was deleted.  
Section 12: Chronic aquatic hazard heading information was deleted.  
Section 12: Acute aquatic hazard heading information was deleted.  
Section 12: Chronic aquatic hazard information information was deleted.  
Prints No Data if Component ecotoxicity information is not present information was deleted.  
Prints No Data if Persistence and Degradability information is not present information was deleted.  
Section 8: mg/m<sup>3</sup> key information was deleted.  
Section 8: ppm key information was deleted.  
Section 11: Aspiration Hazard Table information was deleted.  
Section 11: Respiratory Sensitization Table information was deleted.

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