



## Safety Data Sheet

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|                                       |            |                         |            |
|---------------------------------------|------------|-------------------------|------------|
| <b>Document group:</b>                | 30-3794-2  | <b>Version number:</b>  | 10.00      |
| <b>Revision date:</b>                 | 07/12/2022 | <b>Supersedes date:</b> | 13/02/2019 |
| <b>Transportation version number:</b> |            |                         |            |

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

### IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

3M Surface Pre-Treatment AC-131 BB

#### Product Identification Numbers

70-0052-2112-5

7000048295

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

##### Identified uses

Metal Adhesion Promoter

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

**Address:** 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.  
**Telephone:** +353 1 280 3555  
**E Mail:** tox.uk@mmm.com

**Website:** www.3M.com

#### 1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the MSDSs for components of this product are:**

30-2023-7, 30-3792-6

### TRANSPORTATION INFORMATION

Refer to section 14 of the kit components for transport information.

## KIT LABEL

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

#### CLASSIFICATION:

Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318

Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

### 2.2. Label elements CLP REGULATION (EC) No 1272/2008

#### SIGNAL WORD

DANGER.

#### Symbols

GHS05 (Corrosion) |

#### Pictograms



Contains:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

#### HAZARD STATEMENTS:

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

##### Prevention:

P280A Wear eye/face protection.

##### Response:

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

P310 Immediately call a POISON CENTRE or doctor/physician.

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

#### <=125 ml Hazard statements

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

#### <=125 ml Precautionary statements

**Prevention:**

P280A                                      Wear eye/face protection.

**Response:**

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

P310                                        Immediately call a POISON CENTRE or doctor/physician.

**Revision information:**

Kit Information: CLP Target Organ Hazard Statement information was deleted.

Kit: Component document group number(s) information was modified.

Label: CLP Ingredients - kit components information was modified.

Section 1: Emergency telephone information was modified.

Section 2: <125ml Hazard - Environmental information was added.

Label: CLP Classification information was modified.

Label: CLP Environmental Hazard Statements information was added.

Label: CLP Precautionary - Prevention information was modified.

Label: Graphic information was modified.



## Safety Data Sheet

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**Document group:** 30-3792-6 **Version number:** 10.03  
**Revision date:** 02/02/2023 **Supersedes date:** 14/06/2021

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 Surface Pre-Treatment AC-131 BB Part B

| REACH registration number | CASRN     | EC Number | Ingredient Name                              |
|---------------------------|-----------|-----------|--|
| 01-2119513212-58-0007     | 2530-83-8 | 219-784-2 | [3-(2,3-epoxypropoxy)propyl]trimethoxysilane |

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

##### Identified uses

Part B of Metal Adhesion Promoter

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

**Address:** 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.  
**Telephone:** +353 1 280 3555  
**E Mail:** tox.uk@mmm.com  
**Website:** www.3M.com

#### 1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

### SECTION 2: Hazard identification

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

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

##### CLASSIFICATION:

Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318  
 Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

## 2.2. Label elements

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

#### SIGNAL WORD

DANGER.

#### Symbols

GHS05 (Corrosion) |

#### Pictograms



#### Ingredients:

| Ingredient                                   | CAS Nbr   | EC No.    | % by Wt  |
|--|-----------|-----------|----------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | 219-784-2 | 99 - 100 |

#### HAZARD STATEMENTS:

|      |  |
|------|--|
| H318 | Causes serious eye damage.                         |
| H412 | Harmful to aquatic life with long lasting effects. |

#### PRECAUTIONARY STATEMENTS

##### Prevention:

P280A Wear eye/face protection.

##### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTRE or doctor/physician.

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

#### <=125 ml Hazard statements

|      |  |
|------|--|
| H318 | Causes serious eye damage.                         |
| H412 | Harmful to aquatic life with long lasting effects. |

#### <=125 ml Precautionary statements

##### Prevention:

P280A Wear eye/face protection.

##### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTRE or doctor/physician.

## 2.3. Other hazards

None known.

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

| Ingredient                                   | Identifier(s)   | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|----------|---|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | (CAS-No.) 2530-83-8<br>(EC-No.) 219-784-2<br>(REACH-No.) 01-2119513212-58 | 99 - 100 | Eye Dam. 1, H318<br>Aquatic Chronic 3, H412                     |

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

### 3.2. Mixtures

Not applicable

## 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

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. If you feel unwell, get medical attention.

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

The most important symptoms and effects based on the CLP classification include:

Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

### 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

**Substance**

Carbon monoxide  
Carbon dioxide.

**Condition**

During combustion.  
During combustion.

#### 5.3. Advice for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, 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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. 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. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

### 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 water. 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 breathing 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. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

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

Store away from heat. Store away from oxidising agents. Store away from amines.

### 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**

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.

*Applicable Norms/Standards*

Use eye/face protection conforming to EN 166

**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 clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

| <b>Material</b>  | <b>Thickness (mm)</b> | <b>Breakthrough Time</b> |
|------------------|-----------------------|--------------------------|
| Polymer laminate | No data available     | No data available        |

*Applicable Norms/Standards*

Use gloves tested to EN 374

**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

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

*Applicable Norms/Standards*

Use a respirator conforming to EN 140 or EN 136: filter type A

## SECTION 9: Physical and chemical properties

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

|                                     |  |
|-------------------------------------|--|
| <b>Physical state</b>               | Liquid.                                  |
| <b>Colour</b>                       | Colourless                               |
| <b>Odor</b>                         | Slight Odor                              |
| <b>Odour threshold</b>              | No data available.                       |
| <b>Melting point/freezing point</b> | No data available.                       |
| <b>Boiling point/boiling range</b>  | 120 °C [ @ 266.644 Pa ]                  |
| <b>Flammability (solid, gas)</b>    | Not applicable.                          |
| <b>Flammable Limits(LEL)</b>        | No data available.                       |
| <b>Flammable Limits(UEL)</b>        | No data available.                       |
| <b>Flash point</b>                  | 135 °C [ <i>Test Method:</i> Closed Cup] |



|  |                                       |
|--|---------------------------------------|
| Autoignition temperature               | 231 °C                                |
| Decomposition temperature              | No data available.                    |
| pH                                     | 3.5 [Test Method:Estimated]           |
| Kinematic Viscosity                    | No data available.                    |
| Water solubility                       | Complete [Details:Reacts with water.] |
| Solubility- non-water                  | No data available.                    |
| Partition coefficient: n-octanol/water | No data available.                    |
| Vapour pressure                        | 266.6 Pa [@ 120 °C ]                  |
| Density                                | 1.07 g/ml                             |
| Relative density                       | 1.07 [Ref Std:WATER=1]                |
| Relative Vapour Density                | 8.1 [@ 20 °C ] [Ref Std:AIR=1]        |

## 9.2. Other information

### 9.2.2 Other safety characteristics

|                               |                    |
|-------------------------------|--------------------|
| EU Volatile Organic Compounds | No data available. |
| Evaporation rate              | No data available. |
| Molecular weight              | No data available. |
| Percent volatile              | 0 % weight         |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non reactive under normal use conditions

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

### 10.5 Incompatible materials

Strong oxidising agents.  
Amines.

### 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 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 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Signs and Symptoms of Exposure

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

#### Inhalation

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

#### Skin contact

May be harmful in contact with skin. Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness.

#### 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.

#### Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

#### 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            |
|--|--------------------------------|---------|------------------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Dermal                         | Rabbit  | LD50 4,000 mg/kg |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 5.3 mg/l  |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Ingestion                      | Rat     | LD50 7,010 mg/kg |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name   | Species | Value         |
|--|---------|---------------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Rabbit  | Mild irritant |

#### Serious Eye Damage/Irritation

| Name   | Species | Value     |
|--|---------|-----------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Rabbit  | Corrosive |

#### Skin Sensitisation

| Name   | Species    | Value          |
|--|------------|----------------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Guinea pig | Not classified |

#### 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  |
|--|----------|--|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | In vivo  | Not mutagenic  |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name   | Route  | Species | Value            |
|--|--------|---------|------------------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Dermal | Mouse   | Not carcinogenic |

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

| Name   | Route     | Value                                  | Species | Test result                 | Exposure Duration    |
|--|-----------|--|---------|-----------------------------|----------------------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Ingestion | Not classified for female reproduction | Rat     | NOAEL<br>1,000<br>mg/kg/day | 1 generation         |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Ingestion | Not classified for male reproduction   | Rat     | NOAEL<br>1,000<br>mg/kg/day | 1 generation         |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Ingestion | Not classified for development         | Rat     | NOAEL<br>3,000<br>mg/kg/day | during organogenesis |

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

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

**Specific Target Organ Toxicity - repeated exposure**

| Name   | Route     | Target Organ(s)   | Value          | Species | Test result                 | Exposure Duration |
|--|-----------|---|----------------|---------|-----------------------------|-------------------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Ingestion | heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   kidney and/or bladder   respiratory 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.**

**11.2. Information on other hazards**

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

**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 |
|--|-----------|------------------|--------------|----------|---------------|-------------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Common Carp      | Experimental | 96 hours | LC50          | 55 mg/l     |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Green algae      | Experimental | 96 hours | ErC50         | 350 mg/l    |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Invertebrate     | Experimental | 48 hours | LC50          | 324 mg/l    |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Green algae      | Experimental | 96 hours | NOEC          | 130 mg/l    |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Water flea       | Experimental | 21 days  | NOEC          | 100 mg/l    |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Activated sludge | Experimental | 3 hours  | EC50          | >100 mg/l   |

## 12.2. Persistence and degradability

| Material                                     | CAS Nbr   | Test type                   | Duration | Study Type                     | Test result        | Protocol                       |
|--|-----------|-----------------------------|----------|--------------------------------|--------------------|--------------------------------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Experimental Biodegradation | 28 days  | Dissolv. Organic Carbon Deplet | 37 %removal of DOC | EC C.4.A. DOC Die-Away Test    |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Experimental Hydrolysis     |          | Hydrolytic half-life (pH 7)    | 6.5 hours (t 1/2)  | OECD 111 Hydrolysis func of pH |

## 12.3 : Bioaccumulative potential

| Material                                     | Cas No.   | Test type                     | Duration | Study Type | Test result | Protocol  |
|--|-----------|-------------------------------|----------|------------|-------------|-----------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Experimental Bioconcentration |          | Log Kow    | 0.5         | Episuite™ |

## 12.4. Mobility in soil

| Material                                     | Cas No.   | Test type                | Study Type | Test result | Protocol  |
|--|-----------|--------------------------|------------|-------------|-----------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Modeled Mobility in Soil | Koc        | 10 l/kg     | Episuite™ |

## 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. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

## 12.7. Other adverse effects

No information available.

# SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration 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.

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)**

070104\* Other organic solvents, washing liquids and mother liquors

**SECTION 14: Transportation information**

Not hazardous for transportation.

|   | <b>Ground Transport (ADR)</b>  | <b>Air Transport (IATA)</b>  | <b>Marine Transport (IMDG)</b>   |
|---|--|--|--|
| <b>14.1 UN number or ID number</b>                                | No data available.   | No data available.   | No data available.   |
| <b>14.2 UN proper shipping name</b>                               | No data available.   | No data available.   | No data available.   |
| <b>14.3 Transport hazard class(es)</b>                            | No data available.   | No data available.   | No data available.   |
| <b>14.4 Packing group</b>   | No data available.   | No data available.   | No data available.   |
| <b>14.5 Environmental hazards</b>                                 | No data available.   | No data available.   | No data available.   |
| <b>14.6 Special precautions for user</b>                          | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| <b>14.7 Marine Transport in bulk according to IMO instruments</b> | No data available.   | No data available.   | No data available.   |
| <b>Control Temperature</b>  | No data available.   | No data available.   | No data available.   |
| <b>Emergency Temperature</b>                                      | No data available.   | No data available.   | No data available.   |
| <b>ADR Classification Code</b>                                    | No data available.   | No data available.   | No data available.   |

|                              |                    |                    |                    |
|------------------------------|--------------------|--------------------|--------------------|
| <b>IMDG Segregation Code</b> | No data available. | No data available. | No data available. |
|------------------------------|--------------------|--------------------|--------------------|

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

## 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 material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. 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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

#### DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1  
None

Seveso named dangerous substances, Annex 1, Part 2  
None

#### Regulation (EU) No 649/2012

No chemicals listed

### 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

### List of relevant H statements

H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

#### Revision information:

Section 1: REACH registration number information was added.  
Section 2: <125ml Hazard - Environmental information was added.  
CLP: Ingredient table information was modified.  
Label: CLP Classification information was modified.

Label: CLP Environmental Hazard Statements information was added.  
Label: CLP Target Organ Hazard Statement information was deleted.  
Label: Graphic information was modified.  
Section 3: Composition/ Information of ingredients table information was modified.  
Section 03: Mixture not applicable information was added.  
Section 03: SCL table information was deleted.  
Section 03: Substance not applicable information was deleted.  
Section 4: First Aid - notes to physician (REACH/GHS) information was modified.  
Section 04: First Aid - Symptoms and Effects (CLP) information was added.  
Section 04: Information on toxicological effects information was modified.  
Section 5: Hazardous combustion products table information was modified.  
Section 7: Precautions safe handling information information was modified.  
Section 8: Appropriate Engineering controls information information was modified.  
Section 8: glove data value information was deleted.  
Section 8: glove data value information was modified.  
Section 8: Occupational exposure limit table information was deleted.  
Section 8: Occupational exposure limit table information was modified.  
OEL Reg Agency Desc information was deleted.  
Section 8: Respiratory protection - recommended respirators information information was modified.  
Section 8: STEL key information was deleted.  
Section 8: TWA key information was deleted.  
Section 9: Property description for optional properties information was modified.  
Section 9: Vapour density value information was modified.  
Section 11: Acute Toxicity table information was modified.  
Section 11: Carcinogenicity Table information was modified.  
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: Reproductive/developmental effects information information was deleted.  
Section 11: Serious Eye Damage/Irritation Table information was modified.  
Section 11: Single exposure may cause standard phrases information was deleted.  
Section 11: Skin Corrosion/Irritation Table information was modified.  
Section 11: Skin Sensitization Table information was modified.  
Section 11: Specific Target Organ Toxicity - single exposure text information was added.  
Section 11: Target Organs - Repeated Table information was added.  
Section 11: Target Organs - Repeated Table information was deleted.  
Section 11: Target Organs - Single Table information was deleted.  
Section 12: Component ecotoxicity information information was modified.  
Section 12: Mobility in soil information information was modified.  
Section 12: Persistence and Degradability information information was modified.  
Section 12: Biocumulative potential information information was modified.  
Section 14 Multiplier – Main Heading information was deleted.  
Section 14 Multiplier – Regulation Data information was deleted.  
Section 14 Transport Category – Main Heading information was deleted.  
Section 14 Transport Category – Regulation Data information was deleted.  
Section 14 Marine transport in bulk according to IMO instruments – Main Heading information was modified.  
Section 14 Transport Not Permitted – Main Heading information was deleted.  
Section 14 Transport Not Permitted – Regulation Data information was deleted.  
Section 14 Tunnel Code – Main Heading information was deleted.  
Section 14 Tunnel Code – Regulation Data information was deleted.  
Section 14 UN Number 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: No PBT/vPvB information available warning information was added.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 30-2023-7  | <b>Version number:</b>  | 4.02       |
| <b>Revision date:</b>  | 30/05/2023 | <b>Supersedes date:</b> | 16/07/2021 |

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 Surface Pre-Treatment AC-131 BB Part A

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

##### Identified uses

Part A of Metal Adhesion Promoter

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

**Address:** 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.  
**Telephone:** +353 1 280 3555  
**E Mail:** tox.uk@mmm.com  
**Website:** www.3M.com

#### 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

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

##### 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.

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

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Ingredient | Identifier(s)                             | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------|---|---------|---|
| Water      | (CAS-No.) 7732-18-5<br>(EC-No.) 231-791-2 | 98 - 99 | Substance not classified as 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

No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. Get medical attention.

##### Skin contact

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

##### Eye contact

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.

##### If swallowed

Do not induce vomiting. Rinse mouth. If you feel unwell, get medical attention.

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

No critical symptoms or effects. 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

##### Substance

Carbon monoxide

##### Condition

During combustion.

Carbon dioxide.

During combustion.

### 5.3. Advice for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, 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. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. 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. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. 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 release to the environment.

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

No special storage requirements.

### 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**

|   |   |
|---|---|
| <b>Physical state</b>                         | Liquid.                                     |
| <b>Colour</b>                                 | Blue  |
| <b>Odor</b>                                   | Vinegar                                     |
| <b>Odour threshold</b>                        | <i>No data available.</i>                   |
| <b>Melting point/freezing point</b>           | <i>No data available.</i>                   |
| <b>Boiling point/boiling range</b>            | <i>No data available.</i>                   |
| <b>Flammability (solid, gas)</b>              | Not applicable.                             |
| <b>Flammable Limits(LEL)</b>                  | <i>No data available.</i>                   |
| <b>Flammable Limits(UEL)</b>                  | <i>No data available.</i>                   |
| <b>Flash point</b>                            | ≥93.3 °C [ <i>Test Method: Closed Cup</i> ] |
| <b>Autoignition temperature</b>               | <i>Not applicable.</i>                      |
| <b>Decomposition temperature</b>              | <i>No data available.</i>                   |
| <b>pH</b>                                     | 3.5 - 4                                     |
| <b>Kinematic Viscosity</b>                    | 10 mm <sup>2</sup> /sec                     |
| <b>Water solubility</b>                       | Complete                                    |
| <b>Solubility- non-water</b>                  | <i>No data available.</i>                   |
| <b>Partition coefficient: n-octanol/water</b> | <i>No data available.</i>                   |
| <b>Vapour pressure</b>                        | <i>No data available.</i>                   |
| <b>Relative density</b>                       | 1 [ <i>Ref Std: WATER=1</i> ]               |
| <b>Relative Vapour Density</b>                | <i>No data available.</i>                   |

**9.2. Other information****9.2.2 Other safety characteristics**

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>EU Volatile Organic Compounds</b> | <i>No data available.</i> |
| <b>Evaporation rate</b>              | <i>No data available.</i> |
| <b>Molecular weight</b>              | <i>Not applicable.</i>    |
| <b>Percent volatile</b>              | <i>No data available.</i> |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

This material is considered to be non reactive under normal use conditions

**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**

None known.

#### 10.6 Hazardous decomposition products

##### Substance

None known.

##### Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological 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 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### 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 health effects are expected.

##### **Skin contact**

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

##### **Eye 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 |

ATE = acute toxicity estimate

#### **Skin Corrosion/Irritation**

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

#### **Serious Eye Damage/Irritation**

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

#### **Skin Sensitisation**

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

#### **Respiratory Sensitisation**

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

#### **Germ Cell Mutagenicity**

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

**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**

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

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

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

**Specific Target Organ Toxicity - repeated exposure**

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

**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.**

**11.2. Information on other hazards**

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

**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.

**12.2. Persistence and degradability**

No test data available.

**12.3 : Bioaccumulative potential**

No test data available.

**12.4. Mobility in soil**

No test data available.

**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. Endocrine disrupting properties**

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

**12.7. Other adverse effects**

No information available.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

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

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. 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)**

08 04 10

Waste adhesives and sealants other than those mentioned in 08 04 09

## SECTION 14: Transportation information

Not hazardous for transportation.

|   | <b>Ground Transport (ADR)</b>  | <b>Air Transport (IATA)</b>  | <b>Marine Transport (IMDG)</b>   |
|---|--|--|--|
| <b>14.1 UN number or ID number</b>                                | No data available.   | No data available.   | No data available.   |
| <b>14.2 UN proper shipping name</b>                               | No data available.   | No data available.   | No data available.   |
| <b>14.3 Transport hazard class(es)</b>                            | No data available.   | No data available.   | No data available.   |
| <b>14.4 Packing group</b>   | No data available.   | No data available.   | No data available.   |
| <b>14.5 Environmental hazards</b>                                 | No data available.   | No data available.   | No data available.   |
| <b>14.6 Special precautions for user</b>                          | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| <b>14.7 Marine Transport in bulk according to IMO instruments</b> | No data available.   | No data available.   | No data available.   |
| <b>Control Temperature</b>  | No data available.   | No data available.   | No data available.   |

|                                |                    |                    |                    |
|--------------------------------|--------------------|--------------------|--------------------|
| <b>Emergency Temperature</b>   | No data available. | No data available. | No data available. |
| <b>ADR Classification Code</b> | No data available. | No data available. | No data available. |
| <b>IMDG Segregation Code</b>   | No data available. | No data available. | No data available. |

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

## 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 material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

#### DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1

None

Seveso named dangerous substances, Annex 1, Part 2

None

#### Regulation (EU) No 649/2012

No chemicals listed

### 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:

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

Section 03: Mixture not applicable information was deleted.

Section 03: SCL table information was deleted.



Section 03: Substance not applicable information was added.  
Section 4: First aid for eye contact information information was modified.  
Section 4: First aid for ingestion (swallowing) information information was modified.  
Section 4: First aid for inhalation information information was modified.  
Section 4: First aid for skin contact information information was modified.  
Section 6: Accidental release personal information information was modified.  
Section 8: Appropriate Engineering controls information information was modified.  
Section 8: Occupational exposure limit table information was deleted.  
Section 8: Occupational exposure limit table information was modified.  
OEL Reg Agency Desc information was deleted.  
Section 8: STEL key information was deleted.  
Section 8: TWA key information was deleted.  
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Section 11: Carcinogenicity Table information was deleted.  
Section 11: Carcinogenicity text information was added.  
Section 11: Germ Cell Mutagenicity Table information was deleted.  
Section 11: Germ Cell Mutagenicity text information was added.  
Section 11: Reproductive Toxicity Table information was deleted.  
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 deleted.  
Section 11: Serious Eye Damage/Irritation text information was added.  
Section 11: Skin Corrosion/Irritation Table information was deleted.  
Section 11: Skin Corrosion/Irritation text information was added.  
Section 11: Skin Sensitization Table information was deleted.  
Section 11: Skin Sensitization text information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure text information was added.  
Section 11: Specific Target Organ Toxicity - single exposure text information was added.  
Section 11: Target Organs - Repeated Table information was deleted.  
Section 11: Target Organs - Single Table information was deleted.  
Section 12: Component ecotoxicity information information was deleted.  
Section 12: Mobility in soil information information was deleted.  
Prints No Data if Bioaccumulative potential information is not present information was added.  
Section 12: No Data text for mobility in soil information was added.  
Prints No Data if Persistence and Degradability information is not present information was added.  
Section 12: Persistence and Degradability information information was deleted.  
Section 12: Bioaccumulative potential information information was deleted.  
Section 13: Standard Phrase Category Waste GHS information was modified.  
Section 14 Multiplier – Main Heading information was deleted.  
Section 14 Multiplier – Regulation Data information was deleted.  
Section 14 Transport Category – Main Heading information was deleted.  
Section 14 Transport Category – Regulation Data information was deleted.  
Section 14 Marine transport in bulk according to IMO instruments – Main Heading information was modified.  
Section 14 Tunnel Code – Main Heading information was deleted.  
Section 14 Tunnel Code – Regulation Data information was deleted.  
Section 14 UN Number information was modified.  
Section 15: Chemical Safety Assessment 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 deleted.  
Section 2: No PBT/vPvB information available warning information was added.

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satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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