

# SAFETY DATA SHEET

## MasterRoc FLC 100

Version 2.0      Revision Date: 08/15/2023      SDS Number: 000000260381      Date of last issue: 07/28/2023  
Date of first issue: 01/09/2023

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### SECTION 1. IDENTIFICATION

Product name : MasterRoc FLC 100  
Product code : 000000000051685164 000000000051685164

#### Manufacturer or supplier's details

Company name of supplier : Master Builders-Admixtures US,LLC  
Address : 23700 Chagrin Blvd  
Beachwood OH 44122  
Emergency telephone : ChemTel: +1-813-248-0585  
National Emergency Telephone Number : USA: +1-800-255-3924 ChemTel contract no. MIS9240420

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

Recommended use : Product for construction chemicals  
Restrictions on use : Reserved for industrial and professional use.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion : Category 1  
Serious eye damage : Category 1  
Carcinogenicity (Inhalation) : Category 1A  
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)  
Specific target organ toxicity - repeated exposure (Inhalation) : Category 1 (Lungs)  
Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (Kidney, Immune system)

#### GHS label elements

Hazard pictograms : 

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Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H350 May cause cancer by inhalation.  
H372 Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.  
H373 May cause damage to organs (Kidney, Immune system) through prolonged or repeated exposure if inhaled.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.

**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

In combination with water, repeated or prolonged dermal exposure can cause moderate to severe alkali burns.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : No applicable information available.

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### Components

| Chemical name               | CAS-No.    | Concentration (% w/w) |
|-----------------------------|------------|-----------------------|
| Silicon dioxide             | 7631-86-9  | >= 30 - < 50          |
| calcium oxide               | 1305-78-8  | >= 20 - < 30          |
| Cement, portland, chemicals | 65997-15-1 | >= 10 - < 20          |
| Quartz (SiO <sub>2</sub> )  | 14808-60-7 | >= 1 - < 5            |
| crystalline silica          | 14808-60-7 | >= 1 - < 5            |

Actual concentration is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.  
Causes serious eye damage.  
May cause respiratory irritation.  
Causes damage to organs through prolonged or repeated exposure if inhaled.
- Notes to physician : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray

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- Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
- 

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Neutralize with acid.  
Keep in suitable, closed containers for disposal.
- 

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.  
Electrical installations / working materials must comply with
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the technological safety standards.

Further information on storage conditions : Containers should be stored tightly sealed in a dry place.

Materials to avoid : Keep away from water.  
 Segregate from metals.  
 Segregate from acids and bases.  
 Segregate from oxidants.  
 Segregate from foods and animal feeds.

Further information on storage stability : No data available

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Components                  | CAS-No.    | Value type (Form of exposure)       | Control parameters / Permissible concentration | Basis     |
|-----------------------------|------------|-------------------------------------|--|-----------|
| calcium oxide               | 1305-78-8  | TWA                                 | 2 mg/m <sup>3</sup>                            | ACGIH     |
|                             |            | TWA                                 | 2 mg/m <sup>3</sup>                            | NIOSH REL |
|                             |            | TWA                                 | 5 mg/m <sup>3</sup>                            | OSHA Z-1  |
|                             |            | TWA                                 | 5 mg/m <sup>3</sup>                            | OSHA P0   |
| Quartz (SiO <sub>2</sub> )  | 14808-60-7 | TWA (Respirable dust)               | 0.05 mg/m <sup>3</sup>                         | OSHA Z-1  |
|                             |            | TWA (respirable)                    | 10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2    | OSHA Z-3  |
|                             |            | TWA (respirable)                    | 250 mppcf / %SiO <sub>2</sub> +5               | OSHA Z-3  |
|                             |            | TWA (respirable dust fraction)      | 0.1 mg/m <sup>3</sup>                          | OSHA P0   |
|                             |            | TWA (Respirable particulate matter) | 0.025 mg/m <sup>3</sup> (Silica)               | ACGIH     |
|                             |            | TWA (Respirable dust)               | 0.05 mg/m <sup>3</sup> (Silica)                | NIOSH REL |
| Cement, portland, chemicals | 65997-15-1 | TWA (Respirable particulate matter) | 1 mg/m <sup>3</sup>                            | ACGIH     |
|                             |            | TWA (Respirable)                    | 5 mg/m <sup>3</sup>                            | NIOSH REL |
|                             |            | TWA (total)                         | 10 mg/m <sup>3</sup>                           | NIOSH REL |
|                             |            | TWA (total dust)                    | 15 mg/m <sup>3</sup>                           | OSHA Z-1  |
|                             |            | TWA (respirable fraction)           | 5 mg/m <sup>3</sup>                            | OSHA Z-1  |
|                             |            | TWA (Total dust)                    | 10 mg/m <sup>3</sup>                           | OSHA P0   |

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|  |  |                                |                                     |          |
|--|--|--------------------------------|-------------------------------------|----------|
|  |  | TWA (respirable dust fraction) | 5 mg/m3                             | OSHA P0  |
|  |  | TWA (Dust)                     | 50 Million particles per cubic foot | OSHA Z-3 |

**Engineering measures** : Provide local exhaust ventilation to maintain recommended P.E.L.

### Personal protective equipment

**Respiratory protection** : Wear appropriate certified respirator when exposure limits may be exceeded.  
Wear a NIOSH-certified (or equivalent) particulate respirator.

**Hand protection**

**Remarks** : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection** : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

**Skin and body protection** : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Protective measures** : Do not inhale vapours or dust.  
Avoid contact with the skin, eyes and clothing.  
In order to prevent contamination while handling, closed working clothes and working gloves should be used.  
Handle in accordance with good building materials hygiene and safety practice.

**Hygiene measures** : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : powder

**Color** : gray

**Odor** : odorless

**Odor Threshold** : Not determined due to potential health hazard by inhalation.

**pH** : approx. 13 (68 °F / 20 °C)  
(as aqueous solution)

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|  |   |  |
|--|---|--|
| Melting point                                    | : | No applicable information available.   |
| Boiling point                                    | : | No applicable information available.   |
| Flash point                                      | : | does not flash   |
| Evaporation rate                                 | : | The product is a non-volatile solid.   |
| Flammability (solid, gas)                        | : | not determined   |
| Self-ignition                                    | : | not self-igniting  |
| Upper explosion limit / Upper flammability limit | : | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |
| Lower explosion limit / Lower flammability limit | : | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |
| Vapor pressure                                   | : | No data available  |
| Relative vapor density                           | : | The product is a non-volatile solid.   |
| Density  | : | No data available  |
| Bulk density                                     | : | 500 - 600 kg/m <sup>3</sup>  |
| Solubility(ies)                                  |   |  |
| Water solubility                                 | : | not available, slightly soluble  |
| Solubility in other solvents                     | : | No applicable information available.   |
| Autoignition temperature                         | : | No applicable information available.   |
| Decomposition temperature                        | : | No decomposition if stored and handled as prescribed/indicated.  |
| Viscosity  |   |  |
| Viscosity, dynamic                               | : | Not applicable   |
| Viscosity, kinematic                             | : | No applicable information available.   |
| Explosive properties                             | : | Not explosive<br>Not explosive   |
| Oxidizing properties                             | : | Based on its structural properties the product is not classified as oxidizing.   |
| Self-heating substances                          | : | No data available  |

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Sublimation point : No applicable information available.

Molecular weight : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Conditions to avoid : See SDS section 7 - Handling and storage.

Incompatible materials : Strong bases  
Strong acids

Hazardous decomposition products : No hazardous decomposition products if stored and handled as prescribed/indicated.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Remarks: No applicable information available.

Acute inhalation toxicity : Remarks: No applicable information available.

Acute dermal toxicity : Remarks: No applicable information available.

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

##### Skin sensitization

Not classified based on available information.

##### Respiratory sensitization

Not classified based on available information.

#### Product:

Remarks : Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-life is unlikely.

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### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

May cause cancer by inhalation.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT-single exposure**

May cause respiratory irritation.

### **STOT-repeated exposure**

Causes damage to organs (Lung) through prolonged or repeated exposure if inhaled.  
May cause damage to organs (Kidney, Immune system) through prolonged or repeated exposure if inhaled.

### **Aspiration toxicity**

Not classified based on available information.

### **Experience with human exposure**

#### **Product:**

Skin contact : Remarks: In combination with water, repeated or prolonged dermal exposure can cause moderate to severe alkali burns.

### **Further information**

#### **Product:**

Remarks : Health injuries are not known or expected under normal use. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Product:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### **Persistence and degradability**

#### **Product:**

Biodegradability : Remarks: Not applicable for inorganic substances.

### **Bioaccumulative potential**

#### **Product:**

Bioaccumulation : Remarks: The product will not be readily bioavailable due to

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its consistency and insolubility in water.

### Mobility in soil

#### Product:

Distribution among environmental compartments : Remarks: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.  
The substance will not evaporate into the atmosphere from the water surface.

### Other adverse effects

#### Product:

Additional ecological information : There is a high probability that the product is not acutely harmful to aquatic organisms.  
The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of in accordance with national, state and local regulations.  
Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

UN/ID No. : UN 1910  
Proper shipping name : Calcium oxide  
Class : 8  
Packing group : III  
Labels : Corrosives  
Packing instruction (cargo aircraft) : 864  
Packing instruction (passenger aircraft) : 860

#### IMDG-Code

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Not regulated as a dangerous good

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

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

Not regulated as a dangerous good

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## SECTION 15. REGULATORY INFORMATION

### US State Regulations

#### Pennsylvania Right To Know

|                             |            |
|-----------------------------|------------|
| calcium oxide               | 1305-78-8  |
| Silicon dioxide             | 7631-86-9  |
| sodium sulphate             | 7757-82-6  |
| Quartz (SiO <sub>2</sub> )  | 14808-60-7 |
| Cement, portland, chemicals | 65997-15-1 |
| formaldehyde                | 50-00-0    |

#### New Jersey Right To Know

|                             |            |
|-----------------------------|------------|
| calcium oxide               | 1305-78-8  |
| Silicon dioxide             | 7631-86-9  |
| Quartz (SiO <sub>2</sub> )  | 14808-60-7 |
| Cement, portland, chemicals | 65997-15-1 |

#### California Prop. 65

WARNING: This product can expose you to chemicals including formaldehyde, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

DSL : All components of this product are on the Canadian DSL

#### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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## SECTION 16. OTHER INFORMATION

### Further information

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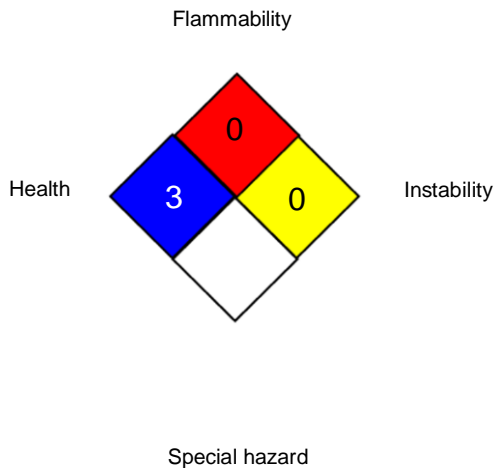
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### NFPA 704:



### HMIS® IV:

|                 |  |  |
|-----------------|--|--|
| HEALTH          |  |  |
| FLAMMABILITY    |  |  |
| PHYSICAL HAZARD |  |  |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

|                 |   |
|-----------------|---|
| ACGIH           | : USA. ACGIH Threshold Limit Values (TLV)   |
| NIOSH REL       | : USA. NIOSH Recommended Exposure Limits  |
| OSHA P0         | : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)                        |
| OSHA Z-1        | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants          |
| OSHA Z-3        | : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts                        |
| ACGIH / TWA     | : 8-hour, time-weighted average   |
| NIOSH REL / TWA | : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| OSHA P0 / TWA   | : 8-hour time weighted average  |
| OSHA Z-1 / TWA  | : 8-hour time weighted average  |
| OSHA Z-3 / TWA  | : 8-hour time weighted average  |

AIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Admin-

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istration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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