SAFETY DATA SHEET

MasterEmaco T 310CI

SECTION 1. IDENTIFICATION

Product name : MasterEmaco T 310CI
Product code : 000000000051352589 000000000051352589

Manufacturer or supplier’s details
Company name of supplier : Master Builders Solutions US, LLC
Address : 23700 CHAGRIN BLVD
           Beachwood OH 44122
Emergency telephone : ChemTel: +1-813-248-0585 USA: +1-800-255-3924

Recommended use of the chemical and restrictions on use
Recommended use : Product for construction chemicals
Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200
Skin corrosion/irritation : 2
Serious eye damage/eye irritation : Category 1
Specific target organ toxicity - single exposure : 3
Carcinogenicity (Inhalation) : 1A (Lung)
Specific target organ toxicity - repeated exposure (Inhalation) : 2 (Kidney, Immune system)
Specific target organ toxicity - repeated exposure (Inhalation) : Category 1

GHS label elements
Hazard pictograms

Signal Word : Danger
Hazard Statements : H318 Causes serious eye damage.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H350 May cause cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H372 Causes damage to organs through prolonged or repeated exposure if inhaled.
Precautionary Statements:

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

**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.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

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

**Disposal:**
P501 Dispose of contents/container to appropriate hazardous waste collection point.

Other hazards:
No data available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: No applicable information available.

**Components**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>crystalline silica</td>
<td>14808-60-7</td>
<td>&gt;= 25 - &lt; 50</td>
</tr>
<tr>
<td>Cement, portland, chemicals</td>
<td>65997-15-1</td>
<td>&gt;= 25 - &lt; 50</td>
</tr>
<tr>
<td>Calcium sulphate</td>
<td>7778-18-9</td>
<td>&gt;= 5 - &lt; 15</td>
</tr>
<tr>
<td>Gypsum (Ca(SO4).2H2O)</td>
<td>13397-24-5</td>
<td>&gt;= 0.3 - &lt; 3</td>
</tr>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>&gt;= 0.1 - &lt; 3</td>
</tr>
<tr>
<td>Silicon dioxide</td>
<td>7631-86-9</td>
<td>&gt;= 0.1 - &lt; 0.2</td>
</tr>
<tr>
<td>sodium nitrite</td>
<td>7632-00-0</td>
<td>&gt;= 0.1 - &lt; 0.2</td>
</tr>
</tbody>
</table>
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: Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.

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. May cause cancer. Causes damage to organs through prolonged or repeated exposure if inhaled. May cause damage to organs through prolonged or repeated exposure.

Notes to physician: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray Foam Dry powder Carbon dioxide (CO2)

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.
- Ensure adequate ventilation.

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 the technological safety standards.

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

Materials to avoid:
- 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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance</td>
<td>CAS Number</td>
<td>REL value</td>
<td>TWA value</td>
<td>Agency</td>
</tr>
<tr>
<td>--------------------------</td>
<td>------------</td>
<td>-----------</td>
<td>-----------</td>
<td>---------------</td>
</tr>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>5 mg/m³</td>
<td></td>
<td>NIOSH</td>
</tr>
<tr>
<td>REL value (Respirable)</td>
<td></td>
<td>10 mg/m³</td>
<td></td>
<td>NIOSH</td>
</tr>
<tr>
<td>REL value (Total)</td>
<td></td>
<td></td>
<td></td>
<td>NIOSH</td>
</tr>
<tr>
<td>PEL (Respirable fraction)</td>
<td></td>
<td>5 mg/m³</td>
<td></td>
<td>29 CFR 1910.1000 (Table Z-1)</td>
</tr>
<tr>
<td>PEL (Total dust)</td>
<td></td>
<td>15 mg/m³</td>
<td></td>
<td>29 CFR 1910.1000 (Table Z-1)</td>
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<td>TWA value (Respirable fraction)</td>
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<td>29 CFR 1910.1000 (Table Z-1-A)</td>
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<td>29 CFR 1910.1000 (Table Z-1-A)</td>
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<tr>
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<td>Silicon dioxide</td>
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<td>29 CFR 1910.1000 (Table Z-1-A)</td>
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<td>TWA (Total dust)</td>
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<td>TWA (Inhalable particulate matter)</td>
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<td>ACGIH</td>
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<td>Gypsum (Ca(SO₄).2H₂O)</td>
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<td>ACGIHTLV</td>
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<td>TWA value (Respirable fraction)</td>
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<td></td>
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<td>TWA (Total)</td>
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<td>NIOSH REL</td>
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<td></td>
</tr>
<tr>
<td>TWA (Total)</td>
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<td>OSHA Z-1</td>
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<td>TWA (Inhalable particulate matter)</td>
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<td>-------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>dust)</td>
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<td>15 mg/m3</td>
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<td>ACGIH HTLV</td>
</tr>
</tbody>
</table>
**SAFETY DATA SHEET**

**MasterEmaco T 310CI**

**Version** 1.0  
**Revision Date:** 08/06/2020  
**SDS Number:** 000002599909  
**Date of last issue:** -  
**Date of first issue:** 08/06/2020

<table>
<thead>
<tr>
<th>REL value (Respirable dust)</th>
<th>TWA value (Respirable dust)</th>
<th>NIOSH TWA value (Respirable dust)</th>
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<tr>
<td>0.05 mg/m³</td>
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<tr>
<td>OSHA Action level</td>
<td>0.025 mg/m³</td>
<td>29 CFR 1910.1001-1050</td>
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<td>TWA (respirable)</td>
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<td>TWA (respirable)</td>
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<td>OSHA CARC</td>
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<tr>
<td>TWA (Respirable dust)</td>
<td>0.05 mg/m³ (Silica)</td>
<td>NIOSH REL</td>
</tr>
</tbody>
</table>

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

**Personal protective equipment**

**Respiratory protection** : Breathing protection if dusts are formed.  
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** : Avoid contact with the skin, eyes and clothing.  
Avoid inhalation of dusts.  
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**
SAFETY DATA SHEET

MasterEmaco T 310CI

Version 1.0  Revision Date: 08/06/2020  SDS Number: 000000259909  Date of last issue: -
Date of first issue: 08/06/2020

Appearance : powder
Color : gray
Odor : mild
Odor Threshold : No data available
pH : 13 (68 °F / 20 °C)
(as aqueous solution)
Melting point : No applicable information available.
Flash point : does not flash
Flammability (solid, gas) : not flammable
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.
Bulk density : 1,350 kg/m³
Solubility(ies) : insoluble (59 °F / 15 °C)
Water solubility : insoluble (59 °F / 15 °C)
Partition coefficient: n-octanol/water : The value has not been determined because the substance is inorganic.
Decomposition temperature : No decomposition if stored and handled as prescribed/indicated.
Viscosity : Not applicable
Viscosity, dynamic : Not applicable
Viscosity, kinematic : Not applicable
Explosive properties : Not explosive
Oxidizing properties : Based on its structural properties the product is not classified as oxidizing.
Self-heating substances : No data available
Molecular weight : No data available.
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.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Skin corrosion/irritation
Causes skin irritation.

Product:
Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation
Causes serious eye damage.

Product:
Remarks: May cause irreversible 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-live is unlikely.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
May cause cancer.

Reproductive toxicity
Not classified based on available information.

STOT-single exposure
May cause respiratory irritation.
STOT-repeated exposure
Causes damage to organs through prolonged or repeated exposure if inhaled.
May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity
Not classified based on available information.

Further information

Product:
Remarks: No data available

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 its consistency and insolubility in water.

Components:

crystalline silica:
Partition coefficient: n-octanol/water : Remarks: not applicable

Cement, portland, chemicals:
Partition coefficient: n-octanol/water : GLP: no
Remarks: not applicable

Calcium sulphate:
Partition coefficient: n-octanol/water : GLP: no
Remarks: The value has not been determined because the substance is inorganic.

Gypsum (Ca(SO4).2H2O):
Partition coefficient: n-
octanol/water substance is inorganic.

**Silicon dioxide:**
Partition coefficient: n-octanol/water Remarks: not applicable

**sodium nitrite:**

**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:**
Results of PBT and vPvB assessment Remarks: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional ecological information Remarks: 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.

### SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

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

### SECTION 14. TRANSPORT INFORMATION

**International Regulations**

**UNRTDG**
Not regulated as a dangerous good

**IATA-DGR**
SAFETY DATA SHEET

MasterEmaco T 310CI

Not regulated as a dangerous good

IMDG-Code
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

SECTION 15. REGULATORY INFORMATION

US State Regulations

Pennsylvania Right To Know

Limestone 1317-65-3
Silicon dioxide 7631-86-9
Calcium sulphate 7778-18-9
Gypsum (Ca(SO4).2H2O) 13397-24-5
Cement, portland, chemicals 65997-15-1
crystalline silica 14808-60-7

New Jersey Right To Know

Limestone 1317-65-3
Calcium sulphate 7778-18-9
Cement, portland, chemicals 65997-15-1
crystalline silica 14808-60-7

California Prop. 65

WARNING: This product can expose you to chemicals including ethylene oxide, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

TSCA : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information
SAFETY DATA SHEET
MasterEmaco T 310CI

NFPA 704:

HMIS® IV:

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

29 CFR 1910.1000 (Table Z-1-A) / TWA value: OSHA - Table Z-1-A (29 CFR 1910.1000)
29 CFR 1910.1000 (Table Z-1) / PEL: OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR 1910.1000
29 CFR 1910.1000 (Table Z-3) / TWA value: OSHA Table Z-3 (Mineral Dusts) 29 CFR 1910.1000
ACGIH / TWA: USA. ACGIH Threshold Limit Values (TLV)
ACGIHTLV / TWA value: American Conference of Governmental Industrial Hygienists - threshold limit values (US)
NIOSH / REL value: NIOSH Pocket Guide to Chemical Hazards (US)
NIOSH REL: USA. NIOSH Recommended Exposure Limits
OSHA CARC: OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
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
29 CFR 1910.1000 (Table Z-1-A) / TWA value: Time Weighted Average (TWA):
29 CFR 1910.1000 (Table Z-1) / PEL: Permissible exposure limit
29 CFR 1910.1000 (Table Z-3) / TWA value: Time Weighted Average (TWA):
ACGIH / TWA: 8-hour, time-weighted average
ACGIHTLV / TWA value: Time Weighted Average (TWA):
NIOSH / REL value: Recommended exposure limit (REL):
SAFETY DATA SHEET

MasterEmaco T 310Cl

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA CARC / PEL : Permissible exposure limit (PEL)
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

AICS - Australian Inventory of Chemical Substances; 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 Administration; 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; 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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