

MasterEmaco T 545

Version 1.1 Revision Date: 01/05/2021 SDS Number: 000000259914 Date of last issue: 06/04/2020
Date of first issue: 06/04/2020

SECTION 1. IDENTIFICATION

Product name : MasterEmaco T 545
Product code : 00000000051701276 00000000051701276

Manufacturer or supplier's details

Company name of supplier : Master Builders-Construction Systems
US, LLC
Address : 23700 CHAGRIN BLVD
Beachwood OH 44122
Emergency telephone : ChemTel: +1-813-248-0585 USA: +1-800-255-3924 Contract
Number MIS9240420


Recommended use of the chemical and restrictions on use

Recommended use : Concrete protection & repair
Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with 29 CFR 1910.1200**

Reproductive toxicity : Category 1B
Reproductive toxicity : Category 1B
Combustible dust : Combustible Dust (1)
Carcinogenicity : Category 1A
Specific target organ toxicity : Category 2 (Kidney, Immune system)
- repeated exposure (Inhalation)
Specific target organ toxicity : Category 1
- repeated exposure (Inhalation)

GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : May form combustible dust concentration in air.
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.
H360 May damage fertility or the unborn child.

MasterEmaco T 545

Version 1.1 Revision Date: 01/05/2021 SDS Number: 000000259914 Date of last issue: 06/04/2020
 Date of first issue: 06/04/2020

Precautionary Statements : **Prevention:**
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P201 Obtain special instructions before use.
 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:
 P314 Get medical advice/ attention if you feel unwell.
 P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

Storage:
 P405 Store locked up.

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : inorganic compounds

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|----------------------------|------------|-----------------------|
| Quartz (SiO ₂) | 14808-60-7 | >= 50 - < 100 |
| calcium oxide | 1305-78-8 | >= 0 - < 3 |
| boric acid | 10043-35-3 | >= 0 - < 3 |
| Tetrasodium pyrophosphate | 7722-88-5 | >= 0 - < 0.2 |
| magnesium oxide | 1309-48-4 | >= 5 - < 15 |
| Iron oxide | 1309-37-1 | >= 0 - < 3 |

SECTION 4. FIRST AID MEASURES

General advice : First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing. Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended.

If inhaled : Keep patient calm, remove to fresh air, seek medical attention. Consult a physician after significant exposure.

MasterEmaco T 545

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 06/04/2020 |
| 1.1 | 01/05/2021 | 000000259914 | Date of first issue: 06/04/2020 |

| | | |
|---|---|---|
| | | If unconscious, place in recovery position and seek medical advice. |
| In case of skin contact | : | Immediately wash thoroughly with soap and water, seek medical attention. |
| In case of eye contact | : | Wash affected eyes for at least 15 minutes under running water with eyelids held open. Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : | Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Induce vomiting immediately and call a physician. Keep respiratory tract clear. 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 | : | May cause cancer. May damage fertility or the unborn child. 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 | : | Foam Water spray Dry powder Carbon dioxide (CO ₂) |
| Unsuitable extinguishing media | : | 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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. |
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MasterEmaco T 545

Version 1.1 Revision Date: 01/05/2021 SDS Number: 000000259914 Date of last issue: 06/04/2020
 Date of first issue: 06/04/2020

Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

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 : 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 : Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.
 Protect from direct sunlight.

Materials to avoid : Observe TRGS 509/510 storage rules.

Further information on storage stability : No decomposition if stored and applied as directed.

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 value | 2 mg/m ³ | ACGIHTLV |
| | | REL value | 2 mg/m ³ | NIOSH |
| | | PEL | 5 mg/m ³ | 29 CFR 1910.1000 (Table Z-1) |

MasterEmaco T 545

Version
1.1Revision Date:
01/05/2021SDS Number:
000000259914Date of last issue: 06/04/2020
Date of first issue: 06/04/2020

| | | | | |
|-----------------|------------|--|------------------------|--------------------------------------|
| | | TWA value | 5 mg/m3 | 29 CFR 1910.1000 (Table Z-1-A) |
| | | TWA | 2 mg/m3 | ACGIH |
| | | TWA | 2 mg/m3 | NIOSH REL |
| | | TWA | 5 mg/m3 | OSHA Z-1 |
| | | TWA | 5 mg/m3 | OSHA P0 |
| Iron oxide | 1309-37-1 | TWA value (Respirable fraction) | 5 mg/m3 | ACGIHTLV |
| | | REL value (Dust and fume) | 5 mg/m3 (iron (Fe)) | NIOSH |
| | | PEL (fumes/smok e) | 10 mg/m3 | 29 CFR 1910.1000 (Table Z-1) |
| | | TWA value (fumes/smok e) | 10 mg/m3 | 29 CFR 1910.1000 (Table Z-1-A) |
| | | TWA (Res- pirable par- ticulate mat- ter) | 5 mg/m3 | ACGIH |
| | | TWA (dust and fume) | 5 mg/m3 (Iron) | NIOSH REL |
| | | TWA (Fumes) | 10 mg/m3 | OSHA Z-1 |
| | | TWA (total dust) | 15 mg/m3 | OSHA Z-1 |
| | | TWA (respir- able fraction) | 5 mg/m3 | OSHA Z-1 |
| | | TWA (Fumes) | 10 mg/m3 | OSHA P0 |
| magnesium oxide | 1309-48-4 | TWA value (Inhalable fraction) | 10 mg/m3 | ACGIHTLV |
| | | PEL (Total particulate) | 15 mg/m3 | 29 CFR 1910.1000 (Table Z-1) |
| | | TWA value (Total partic- ulate) | 10 mg/m3 | 29 CFR 1910.1000 (Table Z-1-A) |
| | | TWA (Inhal- able particu- late matter) | 10 mg/m3 | ACGIH |
| | | TWA (fume, total particu- late) | 15 mg/m3 | OSHA Z-1 |
| | | TWA (Fume - total particu- late) | 10 mg/m3 | OSHA P0 |
| Quartz (SiO2) | 14808-60-7 | TWA value (Respirable fraction) | 0.025 mg/m3 | ACGIHTLV |

MasterEmaco T 545

Version
1.1Revision Date:
01/05/2021SDS Number:
000000259914Date of last issue: 06/04/2020
Date of first issue: 06/04/2020

| | | | | |
|--------------------|------------|--|-------------------------------------|------------------------------|
| | | TWA value | 0.05 mg/m3 (Respirable dust) | 29 CFR 1910.1001- 1050 |
| | | OSHA Action level | 0.025 mg/m3 (Respirable dust) | 29 CFR 1910.1001- 1050 |
| | | REL value (Respirable dust) | 0.05 mg/m3 | NIOSH |
| | | TWA (Res- pirable dust) | 0.05 mg/m3 | OSHA Z-1 |
| | | TWA (respir- able) | 10 mg/m3 / %SiO ₂ +2 | OSHA Z-3 |
| | | TWA (respir- able) | 250 mppcf / %SiO ₂ +5 | OSHA Z-3 |
| | | TWA (respir- able dust fraction) | 0.1 mg/m3 | OSHA P0 |
| | | TWA (Res- pirable par- ticulate mat- ter) | 0.025 mg/m3 (Silica) | ACGIH |
| | | PEL (respir- able) | 0.05 mg/m3 | OSHA CARC |
| | | TWA (Res- pirable dust) | 0.05 mg/m3 (Silica) | NIOSH REL |
| crystalline silica | 14808-60-7 | TWA value (Respirable fraction) | 0.025 mg/m3 | ACGIHTLV |
| | | REL value (Respirable dust) | 0.05 mg/m3 | NIOSH |
| | | TWA value | 0.05 mg/m3 (Respirable dust) | 29 CFR 1910.1001- 1050 |
| | | OSHA Action level | 0.025 mg/m3 (Respirable dust) | 29 CFR 1910.1001- 1050 |
| | | TWA (Res- pirable dust) | 0.05 mg/m3 | OSHA Z-1 |
| | | TWA (respir- able) | 10 mg/m3 / %SiO ₂ +2 | OSHA Z-3 |
| | | TWA (respir- able) | 250 mppcf / %SiO ₂ +5 | OSHA Z-3 |
| | | TWA (respir- able dust fraction) | 0.1 mg/m3 | OSHA P0 |
| | | TWA (Res- pirable par- ticulate mat- ter) | 0.025 mg/m3 (Silica) | ACGIH |
| | | PEL (respir- able) | 0.05 mg/m3 | OSHA CARC |
| | | TWA (Res- | 0.05 mg/m3 | NIOSH REL |

MasterEmaco T 545

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 06/04/2020 |
| 1.1 | 01/05/2021 | 000000259914 | Date of first issue: 06/04/2020 |

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|--|--|---------------|----------|--|
| | | pirable dust) | (Silica) | |
|--|--|---------------|----------|--|

Engineering measures : It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.
Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Use only appropriately classified electrical equipment and powered industrial trucks.

Personal protective equipment

Respiratory protection : Wear respiratory protection if ventilation is inadequate.
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

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

Protective measures : Avoid inhalation of dusts.
Wearing of closed work clothing is required additionally to the stated personal protection equipment.
Avoid exposure - obtain special instructions before use.
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

pH : slightly alkaline

Melting temperature : > 1,832 °F / > 1,000 °C

Boiling point : No applicable information available.

Flash point : does not flash

Evaporation rate : No applicable information available.

Flammability (solid, gas) : not determined

Upper explosion limit / Upper flammability limit : No applicable information available.

MasterEmaco T 545

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 06/04/2020 |
| 1.1 | 01/05/2021 | 000000259914 | Date of first issue: 06/04/2020 |

Lower explosion limit / Lower flammability limit : No applicable information available.

Vapor pressure : No applicable information available.

Relative vapor density : No applicable information available.

Relative density : No applicable information available.

Bulk density : 1,000 kg/m³

Solubility(ies)

 Water solubility : slightly soluble

 Solubility in other solvents : No applicable information available.

Partition coefficient: n-octanol/water : No applicable information available.

Autoignition temperature : No applicable information available.

Decomposition temperature : No applicable information available.

Viscosity

 Viscosity, dynamic : No applicable information available.

 Viscosity, kinematic : No applicable information available.

Explosive properties : Not explosive
Not explosive

Oxidizing properties : not fire-propagating

Self-heating substances : No data available

Sublimation point : No applicable information available.

Molecular weight : No data available

Metal corrosion rate : Corrosive effects to metal are not anticipated.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability : The product is stable if stored and handled as prescribed/indicated.

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

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

Incompatible materials : Strong acids
Strong bases
Strong oxidizing agents

MasterEmaco T 545

Version 1.1 Revision Date: 01/05/2021 SDS Number: 000000259914 Date of last issue: 06/04/2020
Date of first issue: 06/04/2020

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

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

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer.

Reproductive toxicity

May damage fertility or the unborn child.

STOT-single exposure

Not classified based on available information.

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 : The product has not been tested. The statement has been derived from the properties of the individual components.

MasterEmaco T 545

Version 1.1 Revision Date: 01/05/2021 SDS Number: 000000259914 Date of last issue: 06/04/2020
Date of first issue: 06/04/2020

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability**Components:****Tetrasodium pyrophosphate:**

Biodegradability : Remarks: Not applicable

Bioaccumulative potential**Components:****Tetrasodium pyrophosphate:**

Bioaccumulation : Remarks: Not applicable

Partition coefficient: n-octanol/water : log Pow: -10.45

Mobility in soil

No data available

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.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

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

Contaminated packaging : Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned. 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**

MasterEmaco T 545

Version 1.1 Revision Date: 01/05/2021 SDS Number: 000000259914 Date of last issue: 06/04/2020
Date of first issue: 06/04/2020

UNRTDG

Not regulated as a dangerous good

IATA-DGR

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

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Ammonium phosphate 7722-76-1

US State Regulations**Pennsylvania Right To Know**

| | |
|----------------------------|------------|
| calcium oxide | 1305-78-8 |
| Iron oxide | 1309-37-1 |
| magnesium oxide | 1309-48-4 |
| Pentasodium triphosphate | 7758-29-4 |
| Quartz (SiO ₂) | 14808-60-7 |

New Jersey Right To Know

| | |
|--------------------|------------|
| calcium oxide | 1305-78-8 |
| magnesium oxide | 1309-48-4 |
| crystalline silica | 14808-60-7 |

California Prop. 65

WARNING: This product can expose you to chemicals including Quartz (SiO₂), which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

TSCA : All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

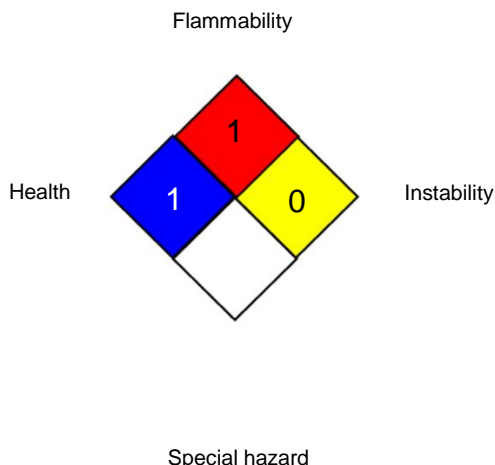
DSL : All components of this product are on the Canadian DSL

SECTION 16. OTHER INFORMATION**Further information**

MasterEmaco T 545

Version 1.1 Revision Date: 01/05/2021 SDS Number: 000000259914 Date of last issue: 06/04/2020
 Date of first issue: 06/04/2020

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

- 29 CFR 1910.1000 (Table Z-1-A) : OSHA - Table Z-1-A (29 CFR 1910.1000)
- 29 CFR 1910.1000 (Table Z-1) : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR 1910.1000
- 29 CFR 1910.1001-1050 : OSHA - Specifically Regulated Substances (29 CFR 1910.1001-1050)
- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- ACGIHTLV : American Conference of Governmental Industrial Hygienists - threshold limit values (US)
- NIOSH : NIOSH Pocket Guide to Chemical Hazards (US)
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA CARC : OSHA Specifically Regulated Chemicals/Carcinogens
- OSHA P0 : USA. 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 1910.1001-1050 / OSHA Action level : OSHA Action level:
- 29 CFR 1910.1001-1050 / 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):
- 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

MasterEmaco T 545

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 06/04/2020 |
| 1.1 | 01/05/2021 | 000000259914 | Date of first issue: 06/04/2020 |

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

Revision Date : 01/05/2021

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MasterEmaco T 545

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 06/04/2020 |
| 1.1 | 01/05/2021 | 000000259914 | Date of first issue: 06/04/2020 |

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