

**MasterSeal 581 prl gry**

Version	Revision Date:	SDS Number:	Date of last issue: 07/19/2021
2.0	10/05/2021	000000261456	Date of first issue: 07/19/2021

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**SECTION 1. IDENTIFICATION**

Product name : MasterSeal 581 prl gry

Product code : 000000000051719932 000000000051719932

**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

National Emergency Telephone Number : USA: +1-800-255-3924 ChemTel contract no. MIS9240420

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

Recommended use : Waterproof coating

Restrictions on use : Reserved for industrial and professional use.

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Skin irritation : Category 2

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**

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Hazard pictograms

:



Signal Word

:

Danger

Hazard Statements

:

H315 Causes skin irritation.  
 H318 Causes serious 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:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
 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.  
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash 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                                :    modified cement mortar

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Cement, portland, chemicals	65997-15-1	>= 30 - < 50
crystalline silica	14808-60-7	>= 30 - < 50
Calcium dihydroxide	1305-62-0	>= 1 - < 5
Titanium dioxide	13463-67-7	>= 1 - < 5

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- General advice                                :    First aid personnel should pay attention to their own safety.  
Remove contaminated clothing.
- If inhaled                                        :    After inhalation of dust.  
Keep patient calm, remove to fresh air.  
If difficulties occur:  
Seek medical attention.
- In case of skin contact                        :    After contact with skin, wash immediately with plenty of water  
and soap.  
Under no circumstances should organic solvent be used.  
If irritation develops, seek medical attention.
- In case of eye contact                         :    Hold eyes open and rinse slowly and gently with water for 15  
to 20 minutes. Remove contact lenses, if present, after first 5  
minutes, then continue rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed                                     :    Immediately rinse mouth and then drink 200-300 ml of water,  
seek medical attention.  
Do not induce vomiting unless told to by a poison control cen-  
ter or doctor.
- Most important symptoms                     :    Causes skin irritation.  
and effects, both acute and                    Causes serious eye damage.  
delayed    May cause respiratory irritation.  
    May cause cancer by inhalation.  
    Causes damage to organs through prolonged or repeated  
    exposure if inhaled.  
    Prolonged or repeated inhalation of respirable crystalline silica  
    (quartz) may result in silicosis.
- Notes to physician                             :    Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media                :    Foam  
Water spray

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Dry powder  
Carbon dioxide (CO<sub>2</sub>)  
Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agents normally used are sufficient.

Unsuitable extinguishing media : water jet

Specific hazards during fire fighting : Product is not combustible or explosive.  
Exposure to decomposition products may be a hazard to health.

Hazardous combustion products : harmful vapours

Further information : Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.  
The degree of risk is governed by the burning substance and the fire conditions.  
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and chemical-protective clothing.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Avoid dust formation.  
Avoid contact with skin and eyes.  
Use personal protective clothing.  
Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions : Do not discharge into drains/surface waters/groundwater.

Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.  
Avoid dust formation.  
Rinse with plenty of water.  
Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : No special precautions necessary.

Advice on safe handling : Avoid dust formation.  
Avoid inhalation of dusts.  
Avoid contact with skin and eyes.  
The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged

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direct contact to the dry product should be avoided therefore. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

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.

## 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 dihydroxide	1305-62-0	TWA value	5 mg/m <sup>3</sup>	ACGIH TLV
		REL value	5 mg/m <sup>3</sup>	NIOSH
		PEL (Respirable fraction)	5 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1)
		PEL (Total dust)	15 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1)
		TWA value	5 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1-A)
		TWA	5 mg/m <sup>3</sup>	ACGIH
		TWA	5 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	5 mg/m <sup>3</sup>	OSHA P0
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
Iron oxide	1309-37-1	TWA (Respirable particulate matter)	5 mg/m <sup>3</sup>	ACGIH
		TWA (dust and fume)	5 mg/m <sup>3</sup> (Iron)	NIOSH REL
		TWA (Fumes)	10 mg/m <sup>3</sup>	OSHA Z-1
		TWA (total)	15 mg/m <sup>3</sup>	OSHA Z-1

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		dust)		
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Fumes)	10 mg/m3	OSHA P0
magnesium oxide	1309-48-4	TWA (Inhalable particulate matter)	10 mg/m3	ACGIH
		TWA (fume, total particulate)	15 mg/m3	OSHA Z-1
		TWA (Fume - total particulate)	10 mg/m3	OSHA P0
Limestone	1317-65-3	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA (Respirable)	5 mg/m3 (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m3 (Calcium carbonate)	NIOSH REL
Gypsum (Ca(SO4).2H2O)	13397-24-5	TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA (Inhalable particulate matter)	10 mg/m3 (Calcium)	ACGIH
Titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (Titanium dioxide)	10 mg/m3	ACGIH
Quartz (SiO2)	14808-60-7	TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1
		TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3

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		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
		PEL (respirable)	0.05 mg/m <sup>3</sup>	OSHA CARC
		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
		TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	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 : Breathing protection if dusts are formed.  
Wear a NIOSH-certified (or equivalent) particulate respirator.

Hand protection

Remarks : Chemical resistant protective gloves. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection : Tightly fitting safety goggles (chemical goggles).

Skin and body protection : Body protection must be chosen based on level of activity and exposure.

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.

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Handle in accordance with good building materials hygiene and safety practice.

Hygiene measures : When using, do not eat, drink or smoke.  
Hands and/or face should be washed before breaks and at the end of the shift.  
At the end of the shift the skin should be cleaned and skin-care agents applied.  
Gloves must be inspected regularly and prior to each use.  
Replace if necessary (e.g. pinhole leaks).  
Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: powder
Color	: various colours
Odor	: earthy
Odor Threshold	: not determined
pH	: slightly alkaline
Melting temperature	: No data available
Boiling point	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Not classified as a flammability hazard
Self-ignition	: not self-igniting
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: 2.70
Density	: Not applicable



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Bulk density	:	1,800 - 2,400 kg/m <sup>3</sup>
Solubility(ies)	:	
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	No data available
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity	:	
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.
Sublimation point	:	No data available
Molecular weight	:	Not applicable

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**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	:	Strong bases are formed on the addition of water. The product is stable if stored and handled as prescribed/indicated.
Conditions to avoid	:	Avoid dust formation. Avoid humidity.
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.

**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.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

May cause cancer by inhalation.

<b>IARC</b>	Group 1: Carcinogenic to humans crystalline silica (Silica dust, crystalline)	14808-60-7
	Group 2B: Possibly carcinogenic to humans Titanium dioxide	13463-67-7
<b>OSHA</b>	OSHA specifically regulated carcinogen crystalline silica (crystalline silica)	14808-60-7
<b>NTP</b>	Known to be human carcinogen crystalline silica (Silica, Crystalline (Respirable Size))	14808-60-7

**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure**

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

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**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 its consistency and insolubility in water.

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Additional ecological information : Do not discharge product into the environment without control. 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 : Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.
- Contaminated packaging : Completely emptied packagings can be given for recycling. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****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

**Special precautions for user**

Not applicable

**SECTION 15. REGULATORY INFORMATION****US State Regulations****Pennsylvania Right To Know**

Cement, portland, chemicals	65997-15-1
crystalline silica	14808-60-7
Calcium dihydroxide	1305-62-0
Titanium dioxide	13463-67-7

**New Jersey Right To Know**

Cement, portland, chemicals	65997-15-1
crystalline silica	14808-60-7
Calcium dihydroxide	1305-62-0
Titanium dioxide	13463-67-7

**California Prop. 65**

WARNING: This product can expose you to chemicals including crystalline silica, which is/are known to the State of California to cause cancer, and

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mercury, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

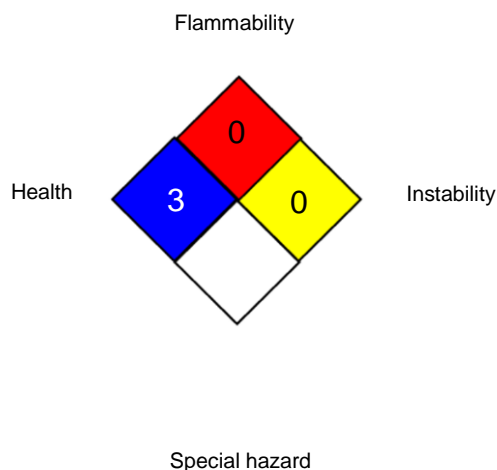
**The ingredients of this product are reported in the following inventories:**

TSCA : All substances listed as active on the TSCA inventory  
 DSL : All components of this product are on the Canadian DSL

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

<b>HEALTH</b>		
<b>FLAMMABILITY</b>		
<b>PHYSICAL HAZARD</b>		

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  
 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

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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
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

AIIC - 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 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; TECI - 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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