




## MasterSeal 658 tb med

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- Hazard pictograms : 
- Signal Word : Danger
- Hazard Statements : H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
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.  
H402 Harmful to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.
- 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.  
P273 Avoid release to the environment.  
P270 Do not eat, drink or smoke when using this product.  
P264 Wash face, hands and any exposed skin thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.
- 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.  
P314 Get medical advice/ attention if you feel unwell.  
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.  
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.

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**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : No applicable information available.

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Quartz (SiO <sub>2</sub> )	14808-60-7	>= 25 - < 50
Limestone	1317-65-3	>= 3 - < 5
Titanium dioxide	13463-67-7	>= 1 - < 3
Isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	25265-77-4	>= 1 - < 3
2-dimethylaminoethanol	108-01-0	>= 0.3 - < 1
ammonia	7664-41-7	>= 0.3 - < 1
bronopol	52-51-7	>= 0.2 - < 0.3
ammonia, aqueous solution	1336-21-6	>= 0.2 - < 0.3
chlorothalonil	1897-45-6	>= 0.2 - < 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. 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. If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
- In case of eye contact : Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

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- 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 : None known.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Dry powder  
Foam  
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.  
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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Product is not explosive.
- Normal measures for preventive fire protection.
- Advice on safe handling : Avoid formation of aerosol.  
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.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
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 VCI 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
Limestone	1317-65-3	REL value (Respirable)	5 mg/m <sup>3</sup>	NIOSH
		REL value (Total)	10 mg/m <sup>3</sup>	NIOSH
		PEL (Respirable fraction)	5 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1)
		PEL (Total)	15 mg/m <sup>3</sup>	29 CFR

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		dust)		1910.1000 (Table Z-1)
		TWA value (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA value (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respir- able dust fraction)	5 mg/m3	OSHA P0
		TWA (Res- pirable)	5 mg/m3 (Calcium car- bonate)	NIOSH REL
		TWA (total)	10 mg/m3 (Calcium car- bonate)	NIOSH REL
ammonia, aqueous solution	1336-21-6	STEL value	35 ppm	ACGIHTLV
		TWA value	25 ppm	ACGIHTLV
		REL value	25 ppm 18 mg/m3	NIOSH
		STEL value	35 ppm 27 mg/m3	NIOSH
		PEL	50 ppm 35 mg/m3	29 CFR 1910.1000 (Table Z-1)
		STEL value	35 ppm 27 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	25 ppm (Ammonia)	ACGIH
		STEL	35 ppm (Ammonia)	ACGIH
		TWA	25 ppm 18 mg/m3 (Ammonia)	NIOSH REL
		ST	35 ppm 27 mg/m3 (Ammonia)	NIOSH REL
ammonia	7664-41-7	STEL value	35 ppm	ACGIHTLV
		TWA value	25 ppm	ACGIHTLV
		REL value	25 ppm 18 mg/m3	NIOSH
		STEL value	35 ppm 27 mg/m3	NIOSH
		PEL	50 ppm 35 mg/m3	29 CFR 1910.1000 (Table Z-1)

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		STEL value	35 ppm 27 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1-A)
		TWA	50 ppm 35 mg/m <sup>3</sup>	OSHA Z-1
		STEL	35 ppm 27 mg/m <sup>3</sup>	OSHA P0
		TWA	25 ppm (Ammonia)	ACGIH
		STEL	35 ppm (Ammonia)	ACGIH
		TWA	25 ppm 18 mg/m <sup>3</sup> (Ammonia)	NIOSH REL
		ST	35 ppm 27 mg/m <sup>3</sup> (Ammonia)	NIOSH REL
Titanium dioxide	13463-67-7	TWA value	10 mg/m <sup>3</sup>	ACGIHTLV
		PEL (Total dust)	15 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1)
		TWA value (Total dust)	10 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1-A)
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Total dust)	10 mg/m <sup>3</sup>	OSHA P0
		TWA	10 mg/m <sup>3</sup> (Titanium dioxide)	ACGIH
Quartz (SiO <sub>2</sub> )	14808-60-7	TWA value (Respirable fraction)	0.025 mg/m <sup>3</sup>	ACGIHTLV
		TWA value	0.05 mg/m <sup>3</sup> (Respirable dust)	29 CFR 1910.1001- 1050
		OSHA Action level	0.025 mg/m <sup>3</sup> (Respirable dust)	29 CFR 1910.1001- 1050
		REL value (Respirable dust)	0.05 mg/m <sup>3</sup>	NIOSH
		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 mat-	0.025 mg/m <sup>3</sup> (Silica)	ACGIH

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		ter)		
		PEL (respirable)	0.05 mg/m3	OSHA CARC
		TWA (Respirable dust)	0.05 mg/m3 (Silica)	NIOSH REL

**Engineering measures** : No applicable information available.

**Personal protective equipment**

**Respiratory protection** : When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

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

**Protective measures** : Do not inhale gases/vapours/aerosols.  
Avoid contact with the skin, eyes and clothing.  
Avoid exposure - obtain special instructions before use.  
Handle in accordance with good building materials hygiene and safety practice.  
Wearing of closed work clothing is recommended.

**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** : liquid

**Color** : pigmented

**pH** : 9 - 9.7

**Boiling point** : No applicable information available.

**Flash point** : not applicable

**Evaporation rate** : No applicable information available.



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Flammability (solid, gas)	:	not determined
Upper explosion limit / Upper flammability limit	:	No applicable information available.
Lower explosion limit / Lower flammability limit	:	No applicable information available.
Vapor pressure	:	No data available
Relative vapor density	:	No applicable information available.
Relative density	:	No applicable information available.
Density	:	approx. 1.5 g/cm <sup>3</sup> (68 °F / 20 °C) approx. 12.3 lb/USg (68.00 °F / 20.00 °C)
Solubility(ies)		
Water solubility	:	dispersible
Solubility in other solvents	:	No applicable information available.
Partition coefficient: n-octanol/water	:	No applicable information available.
Autoignition temperature	:	No data available
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, dynamic	:	No applicable information available.
Viscosity, kinematic	:	No applicable information available.
Explosive properties	:	Not explosive Not explosive
Oxidizing properties	:	Based on its structural properties the product is not classified as oxidizing.
Sublimation point	:	No applicable information 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 reac-	:	No decomposition if stored and applied as directed.

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Conditions to avoid	:	See SDS section 7 - Handling and storage.
Incompatible materials	:	Strong acids Strong bases Strong oxidizing agents Strong reducing agents
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 irritation.

**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Product:**

Remarks : Causes sensitization.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

May cause cancer.

**Reproductive toxicity**

Not classified based on available information.

**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.

**Product:**

No aspiration hazard expected.

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**Further information****Product:**

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

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:****Ecotoxicology Assessment**

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****Quartz (SiO<sub>2</sub>):**

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

**Titanium dioxide:**

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

**Isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol:**

Partition coefficient: n-octanol/water : log Pow: 3.2 (77 °F / 25 °C)  
pH: 7  
Method: Partition coefficient (n-octanol/water), HPLC method.  
GLP: no

**2-dimethylaminoethanol:**

Partition coefficient: n-octanol/water : log Pow: -0.55 (73 °F / 23 °C)  
Method: internal method

**ammonia:**

Partition coefficient: n-octanol/water : log Pow: 0.23 (68 °F / 20 °C)  
Method: other (calculated)  
Remarks: The value has not been determined because the substance is inorganic.

**bronopol:**

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Partition coefficient: n-octanol/water : Pow: 1.64 (75 °F / 24 °C)  
log Pow: 0.22 (75 °F / 24 °C)  
pH: 7  
Method: Partition coefficient  
GLP: yes

**ammonia, aqueous solution:**

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

**chlorothalonil:**

Partition coefficient: n-octanol/water : log Pow: 2.94 (77 °F / 25 °C)

**Mobility in soil**

No data available

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

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life.  
Harmful to aquatic life with long lasting effects.

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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**

Not regulated as a dangerous good

**IMDG-Code**

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**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:

chlorothalonil	1897-45-6
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**US State Regulations****Pennsylvania Right To Know**

Limestone	1317-65-3
Titanium dioxide	13463-67-7
Quartz (SiO <sub>2</sub> )	14808-60-7

**New Jersey Right To Know**

Limestone	1317-65-3
Titanium dioxide	13463-67-7
chlorothalonil	1897-45-6
Quartz (SiO <sub>2</sub> )	14808-60-7

**California Prop. 65**

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

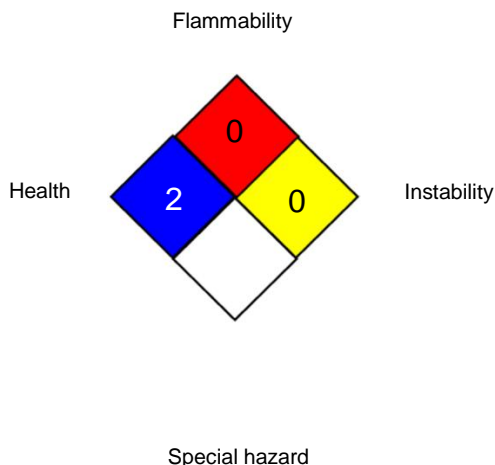
TSCA : All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

**SECTION 16. OTHER INFORMATION****Further information**

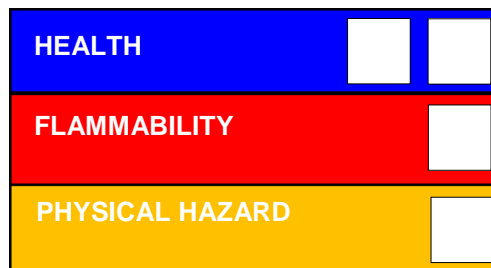
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**NFPA 704:**



**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) : 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) / STEL value : Short Term Exposure Limit (STEL):
- 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
- ACGIH / STEL : Short-term exposure limit
- ACGIHTLV / STEL value : Short Term Exposure Limit (STEL):
- ACGIHTLV / TWA value : Time Weighted Average (TWA):
- NIOSH / REL value : Recommended exposure limit (REL):

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NIOSH / STEL value	:	Short Term Exposure Limit (STEL):
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA CARC / PEL	:	Permissible exposure limit (PEL)
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
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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We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of

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our operations on society and the environment during production, storage, transport, use and disposal of our products.

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