

MasterSeal SL 180 retarder

Version 1.1 Revision Date: 01/27/2021 SDS Number: 000000315671 Date of last issue: 08/28/2020
Date of first issue: 08/28/2020

SECTION 1. IDENTIFICATION

Product name : MasterSeal SL 180 retarder
Product code : 000000000056584537 000000000056584537

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

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**

Flammable liquids : Category 3
Acute toxicity (inhalation (vapor)) : Category 4
Acute toxicity (Oral) : Category 4
Acute toxicity (Dermal) : Category 4
Skin corrosion/irritation : Category 1B
Serious eye damage/eye irritation : Category 1
Skin sensitization : Category 1
Carcinogenicity : Category 2
Specific target organ toxicity - single exposure : Category 1 (Central nervous system, optic nerve)
Short-term (acute) aquatic hazard : Category 2
Long-term (chronic) aquatic hazard : Category 2

MasterSeal SL 180 retarder

Version 1.1 Revision Date: 01/27/2021 SDS Number: 000000315671 Date of last issue: 08/28/2020
 Date of first issue: 08/28/2020

GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapour.
 H312 Harmful in contact with skin.
 H332 Harmful if inhaled.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer.
 H370 Causes damage to organs (Central nervous system, optic nerve).
 H401 Toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P271 Use only outdoors or in a well-ventilated area.
 P201 Obtain special instructions before use.
 P273 Avoid release to the environment.
 P260 Do not breathe dust or mist.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P243 Take action to prevent static discharges.
 P202 Do not handle until all safety precautions have been read and understood.
 P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
 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.
 P233 Keep container tightly closed.
 P242 Use only non-sparking tools.
 P240 Ground and bond container and receiving equipment.

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

MasterSeal SL 180 retarder

Version 1.1 Revision Date: 01/27/2021 SDS Number: 000000315671 Date of last issue: 08/28/2020
Date of first issue: 08/28/2020

P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.
P391 Collect spillage.
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Storage:

P405 Store locked up.
P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : organic

Components

Chemical name	CAS-No.	Concentration (% w/w)
4-tert-butyl catechol	98-29-3	$\geq 75 - \leq 100$
methanol	67-56-1	$\geq 0 - < 20$
1,2-dihydroxybenzene	120-80-9	$\geq 0.2 - < 1$

SECTION 4. FIRST AID MEASURES

- General advice : First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.
- If inhaled : Remove the affected individual into fresh air and keep the person calm.
If symptoms persist, seek medical advice.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Seek medical attention.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
Keep eye wide open while rinsing.
Remove contact lenses.
Seek medical advice.
- 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 center or doctor.
- Most important symptoms : Causes severe skin burns and eye damage.

MasterSeal SL 180 retarder

Version	Revision Date:	SDS Number:	Date of last issue: 08/28/2020
1.1	01/27/2021	000000315671	Date of first issue: 08/28/2020

and effects, both acute and delayed

Harmful if swallowed, in contact with skin or if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer.
Causes damage to organs.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

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

Unsuitable extinguishing media : water jet

Specific hazards during fire fighting : See SDS section 10 - Stability and reactivity.

Hazardous combustion products : harmful vapours
nitrogen oxides
fumes/smoke
carbon black
carbon oxides

Further information : The degree of risk is governed by the burning substance and the fire conditions.
If exposed to fire, keep containers cool by spraying with water.
Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.
Contaminated extinguishing water must be disposed of in accordance with official regulations.

Special protective equipment for fire-fighters : Wear a self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions : Contain contaminated water/firefighting water.
Do not discharge into drains/surface waters/groundwater.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

MasterSeal SL 180 retarder

Version Revision Date: SDS Number: Date of last issue: 08/28/2020
 1.1 01/27/2021 000000315671 Date of first issue: 08/28/2020

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid contact with skin and eyes. Avoid exposure - obtain special instructions before use. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. 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 : no smoking
 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.
- Further information on storage stability : Avoid prolonged storage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
methanol	67-56-1	TWA value	200 ppm	ACGIHTLV
		STEL value	250 ppm	ACGIHTLV
		REL value	200 ppm 260 mg/m ³	NIOSH
		STEL value	250 ppm 325 mg/m ³	NIOSH
		PEL	200 ppm	29 CFR

MasterSeal SL 180 retarder

Version 1.1 Revision Date: 01/27/2021 SDS Number: 000000315671 Date of last issue: 08/28/2020
 Date of first issue: 08/28/2020

			260 mg/m ³	1910.1000 (Table Z-1)
		TWA value	200 ppm 260 mg/m ³	29 CFR 1910.1000 (Table Z-1-A)
		STEL value	250 ppm 325 mg/m ³	29 CFR 1910.1000 (Table Z-1-A)
		TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m ³	NIOSH REL
		ST	250 ppm 325 mg/m ³	NIOSH REL
		TWA	200 ppm 260 mg/m ³	OSHA Z-1
		STEL	250 ppm 325 mg/m ³	OSHA P0
		TWA	200 ppm 260 mg/m ³	OSHA P0

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Wear appropriate certified respirator when exposure limits may be exceeded.

Hand protection

Remarks : Wear 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) and face shield.

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, 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.
Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

MasterSeal SL 180 retarder

Version	Revision Date:	SDS Number:	Date of last issue: 08/28/2020
1.1	01/27/2021	000000315671	Date of first issue: 08/28/2020

Gloves must be inspected regularly and prior to each use.
Replace if necessary (e.g. pinhole leaks).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	viscous, liquid
Color	:	amber
Odor	:	phenol-like
Odor Threshold	:	not determined
pH	:	Not applicable
Melting point	:	No applicable information available.
Boiling point	:	149 °F / 65 °C (760 hPa)
Flash point	:	95 °F / 35 °C Method: Flash-Point by Pensky-Martens Closed Cup Tester.
Evaporation rate	:	No data available
Flammability (liquids)	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	36.5 %(V)
Lower explosion limit / Lower flammability limit	:	6 %(V)
Vapor pressure	:	130 mmHg (68 °F / 20 °C)
Relative vapor density	:	Heavier than air.
Relative density	:	1.037 (68 °F / 20 °C)
Density	:	1.037 g/cm ³ (68 °F / 20 °C)
Solubility(ies)	:	
Water solubility	:	sparingly soluble (77 °F / 25 °C)
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	Pow: 2.85
Autoignition temperature	:	869 °F / 465 °C

MasterSeal SL 180 retarder

Version	Revision Date:	SDS Number:	Date of last issue: 08/28/2020
1.1	01/27/2021	000000315671	Date of first issue: 08/28/2020

Decomposition temperature : No decomposition if stored and handled as prescribed/indicated.

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

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 : No data available

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 decomposition if stored and applied as directed. Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : Phenols
carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Harmful if swallowed, in contact with skin or if inhaled.

Product:

Acute oral toxicity : ATE: 667 mg/kg

Acute inhalation toxicity : ATE: 20.000 mg/l
Remarks: Determined for vapor

Acute dermal toxicity : ATE: 2,000 mg/kg

Skin corrosion/irritation

Causes severe burns.

MasterSeal SL 180 retarder

Version	Revision Date:	SDS Number:	Date of last issue: 08/28/2020
1.1	01/27/2021	000000315671	Date of first issue: 08/28/2020

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization**Skin sensitization**

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Causes damage to organs (Central nervous system, optic nerve).

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks : The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Remarks : Solvents may degrease the skin.

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

Acute aquatic toxicity : Toxic to aquatic life.

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

Persistence and degradability

No data available

MasterSeal SL 180 retarder

Version 1.1 Revision Date: 01/27/2021 SDS Number: 000000315671 Date of last issue: 08/28/2020
Date of first issue: 08/28/2020

Bioaccumulative potential**Components:****4-tert-butyl catechol:**

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

methanol:

Partition coefficient: n-octanol/water : log Pow: -0.77 (68 °F / 20 °C)
Method: other (measured)
GLP: no data
Remarks: Information taken from reference works and the literature.

1,2-dihydroxybenzene:

Partition coefficient: n-octanol/water : log Pow: 0.88 (77 °F / 25 °C)
Method: Calculation Hansch/Leo
Remarks: Information taken from reference works and the literature.

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information : 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.
Residues should be disposed of in the same manner as the substance/product.
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.

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

UN number : UN 2920
Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.

MasterSeal SL 180 retarder

Version	Revision Date:	SDS Number:	Date of last issue: 08/28/2020
1.1	01/27/2021	000000315671	Date of first issue: 08/28/2020

(4-TERT-BUTYLPYROCATECHOL, METHANOL)

Class : 8
 Subsidiary risk : 3
 Packing group : II
 Labels : 8 (3)

IATA-DGR

UN/ID No. : UN 2920
 Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
 (4-TERT-BUTYLPYROCATECHOL, METHANOL)

Class : 8
 Subsidiary risk : 3
 Packing group : II
 Labels : Corrosive, Flammable Liquids
 Packing instruction (cargo aircraft) : 855
 Packing instruction (passenger aircraft) : 851

IMDG-Code

UN number : UN 2920
 Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
 (4-TERT-BUTYLPYROCATECHOL, METHANOL)

Class : 8
 Subsidiary risk : 3
 Packing group : II
 Labels : 8 (3)
 EmS Code : F-E, S-C
 Marine pollutant : yes

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**

UN/ID/NA number : UN 2920
 Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
 (4-TERT-BUTYLPYROCATECHOL, METHANOL)

Class : 8
 Subsidiary risk : 3
 Packing group : II
 Labels : CORROSIVE, FLAMMABLE LIQUID
 ERG Code : 132
 Marine pollutant : no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

MasterSeal SL 180 retarder

Version	Revision Date:	SDS Number:	Date of last issue: 08/28/2020
1.1	01/27/2021	000000315671	Date of first issue: 08/28/2020

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

methanol 67-56-1

1,2-dihydroxybenzene 120-80-9

US State Regulations**Pennsylvania Right To Know**

4-tert-butyl catechol	98-29-3
methanol	67-56-1
1,2-dihydroxybenzene	120-80-9

New Jersey Right To Know

methanol	67-56-1
1,2-dihydroxybenzene	120-80-9

California Prop. 65

WARNING: This product can expose you to chemicals including 1,2-dihydroxybenzene, which is/are known to the State of California to cause cancer, and methanol, 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.

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

TSCA : All substances listed as active on the TSCA inventory

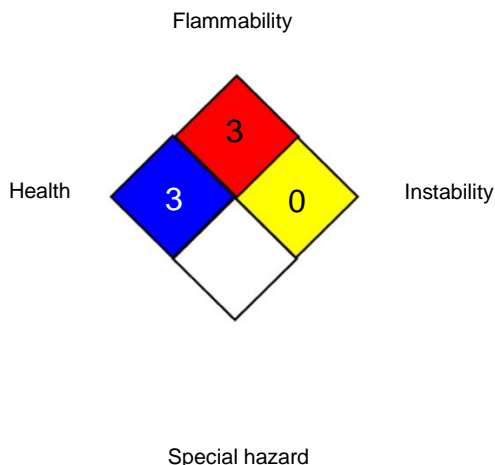
DSL : All components of this product are on the Canadian DSL

SECTION 16. OTHER INFORMATION**Further information**

MasterSeal SL 180 retarder

Version 1.1 Revision Date: 01/27/2021 SDS Number: 000000315671 Date of last issue: 08/28/2020
 Date of first issue: 08/28/2020

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
- 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 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
- 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
- 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):
- 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 P0 / TWA : 8-hour time weighted average
- OSHA P0 / STEL : Short-term exposure limit
- OSHA Z-1 / TWA : 8-hour time weighted average

MasterSeal SL 180 retarder

Version	Revision Date:	SDS Number:	Date of last issue: 08/28/2020
1.1	01/27/2021	000000315671	Date of first issue: 08/28/2020

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 : 01/27/2021

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

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MasterSeal SL 180 retarder

Version	Revision Date:	SDS Number:	Date of last issue: 08/28/2020
1.1	01/27/2021	000000315671	Date of first issue: 08/28/2020

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