

**1. Product and company identification**

Product name **MARBROSOL®** Code

Date of Issue (yyyy/mm/dd): 2018-08-01. Material uses Industrial applications: Lustering treatment by crystallization.

Supplier International Stoneworks, Inc.  
8650 Fairbanks N. Houston Rd  
Houston, Texas 77064  
713-956-8291

**In case of emergency**

Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)

**2. Hazards identification**

Potential hazards described in this section are not expected when manufacturer's direction for use and proper security measures are observed.

Physical state Label : Liquid. (Transparent liquid) Odor: Odorless

2.1 Classification 8(6.1)

## 2.2 Label Elements

Symbol(s)



Signal Word:  
DANGER/  
WARNING

Severely corrosive to the digestive tract. Severely corrosive to the eyes and skin Causes severe burns. May be harmful if swallowed Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin, or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

**Routes of entry**

Dermal contact. Eye contact. Ingestion.

**Potential acute health effects**

**Inhalation** May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Not a usual way of absorption

**Ingestion** Harmful if swallowed. Corrosive to the digestive tract. Causes severe burn&

**Skin** Severely corrosive to the skin. Causes severe burns.

**Eyes** Severely corrosive to the eyes. Causes severe burns.

See toxicological Information (Section 11) for more details.

**Precautionary Statements**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear eye protection/ face protection

P285 - In case of inadequate ventilation wear respiratory protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

### 3. Composition/Information on ingredients

Name	CAS number	*Y,{w/wl
Silicate (2-), hexafluoro-, magnesium (1:1), hexahydrate	18972-56-0	10 - 30
Phosphoric acid	7664-38-2	1 - 5

There are no additional Ingredients present which, within the current knowledge of the supplier and the concentrations applicable are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

<b>Eye contact</b>	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
<b>Skin contact</b>	: In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.
<b>Inhalation</b>	: Move exposed person to fresh air. If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration on or oxygen by trained personnel. Loosen tight things such as a collar, tie, belt or waistband. Get medical attention immediately.
<b>Ingestion</b>	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 5. Fire-fighting measures

<b>Flammability of the product</b>	In a fire or if heated, a pressure increase will occur, and the container may burst
<b>Extinguishing media</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Suitable</b>	None known.
<b>Not suitable</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there's a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special exposure hazards</b>	Decomposition products may include the following materials
<b>Hazardous thermal decomposition products</b>	phosphorus oxides halogenated compounds metal oxide / oxides
<b>Special protective equipment for fire-fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

**Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods for cleaning up

**Small spill** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13) The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

**Handling** Put on suggested personal protective equipment when handling the product. Avoid contact with skin and eyes. Do not ingest. This product is formulated for commercial institutional and industrial uses only.

**Storage** Store in cool ventilated place. Keep container tightly closed when product is stored. Protect from freezing. Keep out of reach of children and pets.

## 8. Exposure controls/personal protection

Occupational exposure limits		TWA(8 hours)			STEL (15 mins)			Ceiling			Notations
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	
Phosphoric acid	11/11: Ar. r.:11-1 1?fl1?	-	1		-	1	-	-	-	-	[3]
	AA d /?fl nQ	-	1		-	1	-	-	-	-	
	Ar. O1?11	-	1		-	1	-	-	-	-	
	nN 7/?fl1fl	-	1		-	1	-	-	-	-	
	QC 9/2011	-	1		-	3	-	-	-	-	
(3) Skin sensitization											

Consult local authorities for acceptable exposure limits.

**Engineering measures** General room ventilation is adequate for the use of this product.

**Hygiene measures** wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period... Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

### Personal protection

**Respiratory** No specific protective equipment suggested

**Hands** It is suggested to use chemical impervious protective gloves when using this product.

**Eyes** It is suggested to wear safety glasses when handling or using chemical products.

**Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  
Recommended safety apron

### Personal protective equipment (Pictograms)



## 9. Physical and chemical properties

<b>Physical state</b> : Liquid. (Transparent liquid)	<b>Molecular formula</b> : Not applicable.	<b>Flammable limits</b> : Not available
<b>Color</b> : Colorless.	<b>Molecular weight</b> : Not applicable.	<b>Burning rate</b> : Not applicable.
<b>Odor</b> : Odorless.	<b>Vapor pressure</b> : Not available	<b>Burning time</b> : Not applicable.
<b>Relative density</b> : 1.15	<b>Vapor density</b> : Not available	<b>Critical temperature</b> : Not available.
<b>pH</b> : 0.75	<b>Volatility</b> : Not available	<b>Auto-ignition temperature</b> : Not available.
<b>Viscosity</b> : Not available.	<b>Evaporation rate</b> : Not available.	<b>Flash point</b> : (Product does not sustain comb
<b>Odor threshold</b> : Not available.	<b>Ionicty (In water)</b> : Not available	<b>Dispensability properties</b> : Not available.
<b>Solubility</b> : Soluble in the following materials: cold water and hot water.	<b>Melting/freezing point</b> : Not available	<b>Bolling/condensation point</b> : Not available

## 10. Stability and reactivity

<b>Chemical stability</b>	: The product is stable.
<b>Conditions to avoid</b>	: No specific data.
<b>Materials to avoid</b>	: Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis Reactive or incompatible with the following materials: alkalis
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

The symptoms, hazards and situations described in this section are not expected when manufacturer's direction for use, proper security measures and given professional exposure limits are correctly followed.

### Potential chronic health effects

#### Chronic effects

#### Carcinogenicity

#### Mutagenicity

#### Teratogenicity

#### Developmental effects

#### Fertility effects

#### Target organs

No known significant effects or critical hazards.

No known significant effects or critical hazards

No known significant effects or critical hazards.

No known significant effects or critical hazards

No known significant effects or critical hazards.

Causes damage to the following organs: skin.

Contains material which may cause damage to the following organs. lungs, digestive system, upper respiratory tract, bones, eye, lens or cornea.

### Over-exposure signs/symptoms

<b>Inhalation</b>	Not a usual way of absorption
<b>Ingestion</b>	Adverse symptoms may include the following: stomach pains
<b>Skin</b>	Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Eyes</b>	Adverse symptoms may include the following: pain watering redness

### Medical conditions aggravated by over-exposure

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Silicate (2-), hexafluoro-, magnesium (1:1), hexahydrate	LOSO Oral	Guinea pig	200mg/kg	
Phosphoric acid	LOSO Dermal	Rabbit	2740 mg/kg	
	LOSO Oral	Rat	1.25 g/kg	
	LOSO Oral	Rat	1530mg/kg	

### Carcinogenicity Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Phosphoric acid		4				None.

## 12. Ecological information

**Eco toxicity** : No known significant effects or critical hazards.

### Aquatic Eco toxicity

Product/Ingredient name	Test	Result	Exposure	Species
Phosphoric acid		Acute LC50 138mg/l	96 hours	Fish

**Bio concentration factor** : Not available.

**Toxicity of the products of biodegradation** : The products of biodegradation are as toxic as the original product.

## 13. Disposal considerations


**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with Jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil waterways, drains and sewers.

**Waste stream** : Not available.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional Information
<b>OOT Classification</b>	Not available.	Refer to bill of lading.	Not available.	-		-
<b>TOG Classification</b>	2922	CORROSIVE LIQUID, TOXIC N.O.S. ( Phosphoric acid , Silicate(2-), hexafluoro- magnesium (1:1). hexahydrate)	8 (6.1)	III		

PG\* : Packing group

## 15. Regulatory information

<b>United States Inventory (TSCA 8b)</b>	: All components are listed or exempted.
<b>WHMIS (Canada)</b>	: Class D-18: Material causing immediate and serious toxic effects (Toxic). Class E: Corrosive material
<b>Canadian lists</b>	: CEPA Toxic substances: None of the components are listed. Canadian ARET. None of the components are listed. Canadian NPRI: The following components are listed: SCI 1500 Alberta Designated Substances: None of the components are listed. Ontario Designated Substances: None of the components are listed. Quebec Designated Substances: None of the components are listed. At least one component is not listed.
<b>Canada Inventory</b>	
<b>Other certification</b>	

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

## 16. Other information on the product

**Label requirements** CAUSES SEVERE DIGESTIVE TRACT, EYE AND SKIN BURNS. MAY BE HARMFUL IF SWALLOWED.

**Date of printing (YYYY-MM-DD)** : 2018-08-01

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Note: SDS are valid for a 3 years period after the date of issue

+ Indicates information that has changed from previously issued version.

### Notice to reader

There are potential hazards to people and goods associated with the use of this product which are detailed in the present Material Safety Data Sheet (SDS). To minimize potential hazards associated with this product it is of user's responsibility to conform the directions for use and another Instructions provided in the Safety Data Sheet (SDS) of this product. The manufacturer, distributors and suppliers of this product are exonerating themselves and consequently shall not be liable for any prejudice or damage of any kind, resulting from the use of this product which may not be in accordance with the directions for use or all the Instructions provided in the present Material Safety Data Sheet (SDS) or resulting from an unadvised use of the present product.

Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)