



# SAFETY DATA SHEET

In accordance with OSHA 29 CFR 1910.1200

**ADHESIVE 7538 GREEN PART A**  
Revision Number 2

Revision date 26-Apr-2021  
Supersedes Date: 03-Oct-2019

## 1. Identification

### 1.1. Product identifier

**Product Name** ADHESIVE 7538 GREEN PART A

### Other means of identification

**Other information** Not applicable

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** Resin  
**Restrictions on use** Consumer use

### 1.3. Details of the supplier of the safety data sheet

#### Responsible Party

Bostik Inc.  
11320 W. Watertown Plank Road  
Wauwatosa, Wisconsin 53226 USA  
Phone: +1 (800) 843-0844 (Domestic Toll Free)  
Phone: +1 (414) 774-2250 (International)  
Fax: +1 (414) 774-8075

**E-mail** msds@bostik.com

### 1.4. Emergency telephone number

**Emergency Telephone** Chemtrec (Transport/Environmental): 1-800-424-9300  
1-703-527-3887 (Outside U.S.)  
Rocky Mountain Poison Center: 1-866-767-5089

## 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1

### Hazards not otherwise classified (HNOC)

Not applicable

### 2.2. Label elements

#### EMERGENCY OVERVIEW

#### Warning

#### Hazard statements

Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction

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**Appearance** Liquid **Physical state** Liquid **Odor** No information available

## Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing must not be allowed out of the workplace  
Wear protective gloves/eye protection/face protection

## Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention  
IF ON SKIN: Wash with plenty of water and soap  
Take off contaminated clothing and wash it before reuse  
If skin irritation or rash occurs: Get medical advice/attention

## Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

0 % of the mixture consists of ingredient(s) of unknown toxicity

## 2.3. Other Information

No information available.

## 3. Composition/information on ingredients

### 3.1. Substances

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW	25068-38-6	60 - 100
Kaolin	1332-58-7	1 - <5

*\*The exact percentage (concentration) of composition has been withheld as a trade secret*

## 4. First-aid measures

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

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Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
Self-protection of the first aider	Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing.

## **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms	Itching. Rashes. Hives. May cause redness and tearing of the eyes. Irritating to skin. Burning sensation.
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## **4.3. Indication of any immediate medical attention and special treatment needed**

Note to physicians	May cause sensitization in susceptible persons. May cause sensitization by skin contact. Treat symptomatically.
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## **5. Fire-fighting measures**

### **5.1. Extinguishing media**

Suitable Extinguishing Media Large Fire	Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Water spray or fog. Foam. CAUTION: Use of water spray when fighting fire may be inefficient.
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Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
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### **5.2. Special hazards arising from the substance or mixture**

Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
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Hazardous combustion products	Hydrogen chloride. Silicon dioxide.
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Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

### **5.3. Advice for firefighters**

Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
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## **6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid breathing vapors or mists. Do not touch
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damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

## Other information

Refer to protective measures listed in Sections 7 and 8.

## 6.2. Environmental precautions

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

## 6.3. Methods and material for containment and cleaning up

### Methods for containment

Prevent further leakage or spillage if safe to do so. Cover with plastic sheet to prevent spreading.

### Methods for cleaning up

Use personal protective equipment as required. Dike to collect large liquid spills. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

### Reference to other sections

See section 8 for more information. See section 13 for more information.

## 7. Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Wash thoroughly after handling. Please refer also to Safety Data Sheet of Part B.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

### 7.3 References to other sections

#### Reference to other sections

Section 10: STABILITY AND REACTIVITY  
Section 13: DISPOSAL CONSIDERATIONS

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Kaolin 1332-58-7	TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica,	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust

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	respirable particulate matter	(vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	
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Chemical name	Argentina	Brazil	Chile	Colombia
Kaolin 1332-58-7	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 13 mg/m <sup>3</sup> TWA: 4.5 mg/m <sup>3</sup>	TWA: 2mg/m <sup>3</sup>

Chemical name	Costa Rica	Peru	Uruguay	Venezuela
Kaolin 1332-58-7	TWA: 2mg/m <sup>3</sup>	TWA: 2mg/m <sup>3</sup>	2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)	TWA: 2 mg/m <sup>3</sup>

## 8.2. Exposure controls

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Avoid contact with eyes. If splashes are likely to occur: Face protection shield.

**Hand protection** Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

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Physical state	Liquid
Appearance	Liquid
Color	Off-white; Cream
Odor	No information available
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	Not applicable
pH (as aqueous solution)	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	Not applicable for liquids	
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

## 9.2. Other information

Explosive properties	No information available
Oxidizing properties	No information available
Solvent content (%)	No information available
Solid content (%)	No information available
Softening Point	No information available
Molecular weight	No information available
VOC Content (%)	
Liquid Density	1.22 g/cm <sup>3</sup>
Bulk density	No information available

## **10. Stability and reactivity**

### 10.1. Reactivity

Reactivity	No information available.
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### 10.2. Chemical stability

Chemical stability	Stable under normal conditions.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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Hazardous polymerization	Hazardous polymerization does not occur.
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### 10.4. Conditions to avoid

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Conditions to avoid Heat, flames and sparks. Incompatible materials.

## 10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

## 10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions

## **11. Toxicological information**

### 11.1. Information on toxicological effects

#### Product Information

Inhalation	Specific test data for the substance or mixture is not available. Based on available data, the classification criteria are not met.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact. Causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. Burning. May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation.

### Acute toxicity

#### Numerical measures of toxicity

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6	LD50 (Rattus) > 2000 mg/kg OECD 420	>2000 mg/Kg (Rattus)	-
Kaolin 1332-58-7	LD50 (Rattus) > 2000 mg/kg	> 5000 mg/kg (Rattus)	1.5 mg/l 4hr

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitization	May cause sensitization by skin contact.

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Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure Target organ effects	Based on available data, the classification criteria are not met. Respiratory system, Eyes, Skin, Gastrointestinal tract (GI).
Aspiration hazard	Based on available data, the classification criteria are not met.
Other adverse effects	No information available.
Interactive effects	No information available.

## 12. Ecological information

### 12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Bisphenol-A-Epichlorhydrin in Epoxy resin <= 700 MW 25068-38-6	EC50 (72h) = 9.4 mg/L (Scenedesmus capricornutum) EPA-660/3-75-009	1.2 mg/l 96Hr (Oncorhynchus mykiss)	-	2.7 mg/l 48hr Daphnia Magna
Kaolin 1332-58-7	IC 50 (72h) > 1000 mg/l	LC 50 (96h) > 1000 mg/l	-	EC 50 (48h) > 1000 mg/l (Daphnia magna)

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

#### Component Information

Chemical name	Partition coefficient
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6	3.26

### 12.4. Mobility in soil

Mobility No information available.

#### Other adverse effects

Other adverse effects No information available.

## 13. Disposal considerations



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## 13.1. Waste treatment methods

### Waste from residues/unused products

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Should not be released into the environment.

### Contaminated packaging

Dispose of in accordance with federal, state and local regulations.

## 14. Transport information

### Note:

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition) The information shown here, may not always agree with the bill of lading shipping description for the material 49 CFR 171.4(c) "Exceptions. Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car or aircraft."

### DOT

UN/ID No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	9
Packing Group	III
Special Provisions	8, 146, 173, 335, IB3, T4, TP1, TP29
Marine Pollutant	Np
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.(Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW), 9, III, Marine Pollutant
Emergency Response Guide Number	171

### IATA

UN number or ID number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	9
Packing group	III
Special Provisions	A97, A158, A197
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.(Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW), 9, III

### IMDG

UN number or ID number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	9
Packing group	III
EmS-No	F-A, S-F
Special Provisions	274, 335, 969
Marine pollutant	P
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.(Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW), 9, III, Marine Pollutant

## 15. Regulatory information

### International Inventories

TSCA	Listed
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DSL	Listed
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**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** - Canadian Domestic Substances List

**Listed** - The components of this product are either listed or exempt from listing on inventory.

**Not Listed** - One or more components of this product are not listed on inventory.

## US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## Europe

### Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation. This document is based on the information given to us by our own suppliers at the date of this document.

### SVHC: Substances of Very High Concern for Authorization:

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## 16. Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Prepared By** Product Safety & Regulatory Affairs.

**Revision date** 26-Apr-2021

**Revision note** SDS sections updated. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16.

### Disclaimer

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.

End of Safety Data Sheet



# SAFETY DATA SHEET

In accordance with OSHA 29 CFR 1910.1200

**ADHESIVE 7538 GREEN PART B**  
Revision Number 1

Revision date 26-Apr-2021  
Supersedes Date: Not applicable

## 1. Identification

### 1.1. Product identifier

**Product Name** ADHESIVE 7538 GREEN PART B

### Other means of identification

**Other information** Not applicable

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** Hardener  
**Restrictions on use** Consumer use

### 1.3. Details of the supplier of the safety data sheet

#### Responsible Party

Bostik Inc.  
11320 W. Watertown Plank Road  
Wauwatosa, Wisconsin 53226 USA  
Phone: +1 (800) 843-0844 (Domestic Toll Free)  
Phone: +1 (414) 774-2250 (International)  
Fax: +1 (414) 774-8075

**E-mail** msds@bostik.com

### 1.4. Emergency telephone number

**Emergency Telephone** Chemtrec (Transport/Environmental): 1-800-424-9300  
1-703-527-3887 (Outside U.S.)  
**Rocky Mountain Poison Center:** 1-866-767-5089

## 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

Skin sensitization	Category 1
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### Hazards not otherwise classified (HNOC)

Not applicable

### 2.2. Label elements

#### EMERGENCY OVERVIEW

#### Warning

#### Hazard statements

May cause an allergic skin reaction

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**Appearance** No information available      **Physical state** Solid      **Odor** No information available

## Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing must not be allowed out of the workplace  
Wear protective gloves

## Precautionary Statements - Response

IF ON SKIN: Wash with plenty of water and soap  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse

## Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

0 % of the mixture consists of ingredient(s) of unknown toxicity

## 2.3. Other Information

No information available.

## 3. Composition/information on ingredients

### 3.1. Substances

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%
Limestone	1317-65-3	30 - 60
Kaolin	1332-58-7	1 - <5
Triethylenetetramine	112-24-3	0.1 - <1
Quartz	14808-60-7	0.1 - <1
2,2'-iminodi(ethylamine)	111-40-0	0.1 - <1
Tetraethylenepentamine	112-57-2	0.1 - <1

*\*The exact percentage (concentration) of composition has been withheld as a trade secret*

## 4. First-aid measures

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. If symptoms persist, call a physician.

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Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives.

## 4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. May cause sensitization by skin contact. Treat symptomatically.

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Suitable Extinguishing Media Water spray or fog. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam.  
Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Thermal decomposition can lead to release of irritating and toxic gases and vapors. Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous combustion products Carbon dioxide (CO<sub>2</sub>). Silicon dioxide.

#### Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

### 5.3. Advice for firefighters

Special protective equipment for fire-fighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

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## 6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

## 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Following product recovery, flush area with water.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse. Please refer also to Safety Data Sheet of Part A.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

### 7.3 References to other sections

**Reference to other sections** Section 10: STABILITY AND REACTIVITY  
Section 13: DISPOSAL CONSIDERATIONS

## 8. Exposure controls/personal protection

### 8.1. Control parameters

**Exposure Limits** This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Limestone 1317-65-3	-	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Kaolin 1332-58-7	TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust

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		(vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable particulate matter	TWA: 50 µg/m <sup>3</sup> TWA: 50 µg/m <sup>3</sup> excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust : (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction : (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
2,2'-iminodi(ethylamine) 111-40-0	TWA: 1 ppm S*	(vacated) TWA: 1 ppm (vacated) TWA: 4 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 4 mg/m <sup>3</sup>

Chemical name	Argentina	Brazil	Chile	Colombia
Limestone 1317-65-3	TWA: 10 mg/m <sup>3</sup>	-	TWA: 7 mg/m <sup>3</sup>	-
Kaolin 1332-58-7	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 13 mg/m <sup>3</sup> TWA: 4.5 mg/m <sup>3</sup>	TWA: 2mg/m <sup>3</sup>
Quartz 14808-60-7	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.08 mg/m <sup>3</sup>	TWA: 0.025mg/m <sup>3</sup>
2,2'-iminodi(ethylamine) 111-40-0	TWA: 1 ppm Skin	TWA: 1 ppm	-	TWA: 1ppm

Chemical name	Costa Rica	Peru	Uruguay	Venezuela
Kaolin 1332-58-7	TWA: 2mg/m <sup>3</sup>	TWA: 2mg/m <sup>3</sup>	2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)	TWA: 2 mg/m <sup>3</sup>
Quartz 14808-60-7	TWA: 0.025mg/m <sup>3</sup>	TWA: 0.05mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup> TWA (respirable particulate matter)	TWA: 0.025 mg/m <sup>3</sup>
2,2'-iminodi(ethylamine) 111-40-0	TWA: 1ppm	TWA: 1ppm TWA: 4.2mg/m <sup>3</sup>	1 ppm TWA	Skin TWA: 1 ppm

## 8.2. Exposure controls

### Appropriate engineering controls

**Engineering controls**      Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection**      Wear safety glasses with side shields (or goggles).

**Hand protection**      Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

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<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
<b>General hygiene considerations</b>	Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Avoid contact with eyes. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Solid
<b>Appearance</b>	No information available
<b>Color</b>	Green
<b>Odor</b>	No information available
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	No data available	None known
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Melting point / freezing point</b>	No data available	None known
<b>Initial boiling point and boiling range</b>	No data available	None known
<b>Flash point</b>	No data available	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor pressure</b>	0.0003	hPa
<b>Relative vapor density</b>	No data available	None known
<b>Relative density</b>	No data available	None known
<b>Water solubility</b>	No data available	None known
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known

### 9.2. Other information

<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Solvent content (%)</b>	No information available
<b>Solid content (%)</b>	No information available
<b>Softening Point</b>	No information available



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Molecular weight	No information available
VOC Content (%)	
Liquid Density	1.56 g/cm <sup>3</sup>
Bulk density	No information available

## 10. Stability and reactivity

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Chemical stability Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Incompatible materials.

### 10.5. Incompatible materials

Incompatible materials Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Product Information

Inhalation Based on available data, the classification criteria are not met.

Eye contact Based on available data, the classification criteria are not met.

Skin contact Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.

Ingestion Based on available data, the classification criteria are not met.

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives.

### Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (inhalation-dust/mist) 7.78 mg/l

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## Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Limestone 1317-65-3	>5000 mg/kg (Rattus)	-	-
Kaolin 1332-58-7	LD50 (Rattus) > 2000 mg/kg	> 5000 mg/kg (Rattus)	1.5 mg/l 4hr
Triethylenetetramine 112-24-3	LD50 = 1716 mg/kg (Rattus) OECD 401	LD50 = 1465 mg/kg (Oryctolagus cuniculus) OECD 402	-
Quartz 14808-60-7	>2000 mg/kg (Rattus)	-	-
2,2'-iminodi(ethylamine) 111-40-0	=1080 mg/kg (Rattus)	= 1045 mg/kg (Oryctolagus cuniculus)	=0,07 - 0.3 mg/L (Rattus) 4 h
Tetraethylenepentamine 112-57-2	=3990 mg/kg (Rattus)	= 660 µL/kg (Oryctolagus cuniculus)	-

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitization</b>	May cause sensitization by skin contact.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

Chemical name	ACGIH	IARC	NTP	OSHA
Quartz 14808-60-7	A2	Group 1	Known	X

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Target organ effects</b>	Respiratory system, Eyes, Skin, Gastrointestinal tract (GI).
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Other adverse effects</b>	No information available.
<b>Interactive effects</b>	No information available.

## 12. Ecological information

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## 12.1. Toxicity

### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Limestone 1317-65-3	CE50 (72h) >200mg/L Algae (Desmodesmus subspicatus)	CL50 (96h) >10000mg/L (Oncorhynchus mykiss)	-	CE50 (48h) >1000 mg/L Daphnia Magna
Kaolin 1332-58-7	IC 50 (72h) > 1000 mg/l	LC 50 (96h) > 1000 mg/l	-	EC 50 (48h) > 1000 mg/l (Daphnia magna)
Triethylenetetramine 112-24-3	EC50: =20mg/L (72h, Pseudokirchneriella subcapitata) EC50: =3.7mg/L (96h, Pseudokirchneriella subcapitata) EC50: =2.5mg/L (72h, Desmodesmus subspicatus)	LC50: =495mg/L (96h, Pimephales promelas) LC50: =570mg/L (96h, Poecilia reticulata)	-	EC50: =31.1mg/L (48h, Daphnia magna)
2,2'-iminodi(ethylamine) 111-40-0	EC50 72 h = 1164 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h = 248 mg/L (Poecilia reticulata static)	EC50 = 2000 mg/L 1 h EC50 = 96 mg/L 17 h	EC50 48 h = 16 mg/L (Daphnia magna )
Tetraethylenepentamine 112-57-2	EC50: =2.1mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =420mg/L (96h, Poecilia reticulata)	-	EC50: =24.1mg/L (48h, Daphnia magna)

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

## 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

### Component Information

Chemical name	Partition coefficient
Limestone 1317-65-3	0.9
Triethylenetetramine 112-24-3	-1.4
2,2'-iminodi(ethylamine) 111-40-0	-1.3
Tetraethylenepentamine 112-57-2	1

## 12.4. Mobility in soil

**Mobility** No information available.

### Other adverse effects

**Other adverse effects** No information available.

## 13. Disposal considerations

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## 13.1. Waste treatment methods

### Waste from residues/unused products

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

### Contaminated packaging

Dispose of in accordance with federal, state and local regulations.

## 14. Transport information

### DOT

Not regulated

### IATA

Not regulated

### IMDG

Not regulated

## 15. Regulatory information

### International Inventories

TSCA	Listed
DSL	Not Listed

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### Europe

#### Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation. This document is based on the information given to us by our own suppliers at the date of this document.

#### SVHC: Substances of Very High Concern for Authorization:

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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## 16. Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Prepared By Product Safety & Regulatory Affairs.

Revision date 26-Apr-2021

Revision note No information available.

#### Disclaimer

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.

End of Safety Data Sheet