

# SAFETY DATA SHEET

Category 1A Category 2 Category 1<sup>1.</sup>

## 1. Identification

Material name: ALPHAGUARD Si 100 SILICONE LT GRAY 50 GL Material: 351252SC850

## Recommended use and restriction on use

**Recommended use:** Coatings **Restrictions on use:** Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S. Roofing 3735 Green Road Beachwood OH 44122 US

Contact person: Telephone: Emergency telephone number: EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

## Hazard Classification

## Health Hazards

Carcinogenicity
Toxic to reproduction
Specific Target Organ Toxicity - Repeated Exposure

Target Organs

1. Lung

#### Unknown toxicity - Health

Acute toxicity, oral	83 %
Acute toxicity, dermal	91 %
Acute toxicity, inhalation, vapor	100 %
Acute toxicity, inhalation, dust or mist	97.5 %

#### Label Elements

Hazard Symbol:





Signal Word:	Danger
Hazard Statement:	May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.
Precautionary Statements	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Response:	IF exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	20 - <50%
Titanium dioxide	1317-80-2	5 - <10%
Octamethylcyclotetrasiloxane	556-67-2	1 - <3%
Carbon Black	1333-86-4	1 - <5%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
Inhalation:	Move to fresh air.
Skin Contact:	Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.

Most important symptoms/effects, acute and delayed



Symptoms:	May cause skin and eye irritation.
Indication of immediate medical a	ttention and special treatment needed
Treatment:	Symptoms may be delayed.
5. Fire-fighting measures	
General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) extingu	lishing media
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measures	S
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
7. Handling and storage	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.



#### Conditions for safe storage, Store locked up. including any incompatibilities:

## 8. Exposure controls/personal protection

## **Control Parameters**

## **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Limit Values	Source
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.05 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
	OSHA_AC T	0.025 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	PEL	0.05 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Titanium dioxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Carbon Black - Inhalable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (2011)
Carbon Black	PEL	3.5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)



Chemical name	Туре	Exposure Limit Values	Source
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Carbon Black - Inhalable	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Carbon Black - Inhalable fraction.	TWA	3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Carbon Black	TWA	3.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

#### Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

## Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection Hand Protection: Other:	Use suitable protective gloves if risk of skin contact. Wear suitable protective clothing.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.



Hygiene measures:

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

## 9. Physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Grey
Odor:	Mild
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	2,230 °C 4,046 °F
Flash Point:	> 93 °C > 199 °F
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosi	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.29
Solubility(ies)	
Solubility in water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.



Incompatible Materials:	Strong acids. Strong bases.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

# 11. Toxicological information

Information on likely routes of e Inhalation:	exposure In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.	
Skin Contact:	May be harmful in contact with skin.	
Eye contact:	Eye contact is possible and should be avoided.	
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.	
Symptoms related to the physical, chemical and toxicological characteristics		
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Ingestion:	No data available.	
Information on toxicological effects		
Acute toxicity (list all possible routes of exposure)		

Oral Product:	Not classified for acute toxicity based on available data.
Specified substance(s): Titanium dioxide	LD 50 (Rat): > 11,000 mg/kg
Octamethylcyclotetrasilox ane	LD 50 (Rat): > 4,800 mg/kg
Carbon Black	LD 50 (Rat): > 8,000 mg/kg
Dermal Product:	Not classified for acute toxicity based on available data.
Specified substance(s): Octamethylcyclotetrasilox ane	LD 50 (Rabbit): > 10,000 mg/kg
Inhalation Product:	Not classified for acute toxicity based on available data.



Specified substance(s):

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Octamethylcyclotetrasilox ane	LC 50 (Rat): 36 mg/l	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	No data available.	
Specified substance(s): Titanium dioxide	in vivo (Rabbit): Not irritant Read-across from supporting substance (structural analogue or surrogate), Supporting study	
Octamethylcyclotetrasil oxane	in vivo (Rabbit): Not irritant Experimental result, Key study	
Carbon Black	in vivo (Rabbit): Not irritant Experimental result, Key study	
Serious Eye Damage/Eye Irritation Product: No data available. Specified substance(s):		
Carbon Black	Rabbit, 24 - 72 hrs: Not irritating	
Respiratory or Skin Sensitizatio Product:	<b>n</b> No data available.	
Carcinogenicity Product:	No data available.	
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:		
Crystalline Silica (Quartz)/ Silica Sand	Overall evaluation: Carcinogenic to humans.	
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.	
Carbon Black	Overall evaluation: Possibly carcinogenic to humans.	
US. National Toxicology Program	m (NTP) Report on Carcinogens:	



US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Crystalline Silica		
(Quartz)/ Silica Sand	Cancer	
Germ Cell Mutagenicity		
In vitro Product:	No data available.	
In vivo Product:	No data available.	
Reproductive toxicity Product:	Suspected of damaging fertility or the unborn child.	
Specific Target Organ Toxicity Product:	- Single Exposure No data available.	
Specific Target Organ Toxicity - Repeated Exposure Product: No data available.		
<b>Target Organs</b> Specific Target Organ Toxicity - Repeated Exposure: Lung		
Aspiration Hazard Product:	No data available.	
Other effects:	No data available.	

# 12. Ecological information

**Ecotoxicity:** 

## Acute hazards to the aquatic environment:

Fish

Product:

No data available.

Aquatic Invertebrates Product: No data available.

## Chronic hazards to the aquatic environment:

Fish Product:

No data available.



Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (BC Product:	F) No data available.	
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF): 14,261 (Flow through)	
Partition Coefficient n-octanol / w Product:	vater (log Kow) No data available.	
Mobility in soil:	No data available.	
Other adverse effects:	No data available.	
13. Disposal considerations		
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.	
Contaminated Packaging:	No data available.	
14. Transport information		
TDO		

## TDG:

Not Regulated

## CFR / DOT:

Not Regulated



IMDG:

Not Regulated

## 15. Regulatory information

## US Federal Regulations

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

 Chemical Identity
 Reportable quantity

 Octamethylcyclotetrasilox
 De minimis concentration: TSCA 4% One-Time Export Notification only.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Chemical Identity	<u>OSHA hazard(s)</u>
Crystalline Silica	kidney effects
(Quartz)/ Silica Sand	lung effects
	immune system effects
	Cancer

## CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Delayed (Chronic) Health Hazard Carcinogenicity Reproductive toxicity Specific target organ toxicity (single or repeated exposure)

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Crystalline Silica (Quartz)/	10000 lbs
Silica Sand	
Titanium dioxide	10000 lbs
Octamethylcyclotetrasiloxane	10000 lbs
Carbon Black	10000 lbs

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.



#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

## **US State Regulations**

## **US. California Proposition 65**



WARNING Cancer - www.P65Warnings.ca.gov

## US. New Jersey Worker and Community Right-to-Know Act

#### **Chemical Identity**

Crystalline Silica (Quartz)/ Silica Sand Titanium dioxide Carbon Black

## **US. Massachusetts RTK - Substance List**

<u>Chemical Identity</u> Crystalline Silica (Quartz)/ Silica Sand Titanium dioxide

#### US. Pennsylvania RTK - Hazardous Substances

## **Chemical Identity**

Crystalline Silica (Quartz)/ Silica Sand Titanium dioxide

## US. Rhode Island RTK

## **Chemical Identity**

Crystalline Silica (Quartz)/ Silica Sand Titanium dioxide

#### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

#### Kyoto protocol

Not applicable

#### VOC:

Regulatory VOC (less water and exempt solvent)	:	50 g/l
VOC Method 310	:	3.90 %



**Inventory Status:** Australia AICS: All components in this product are listed on or exempt from the Inventory. Canada DSL Inventory List: All components in this product are listed on or exempt from the Inventory. EINECS, ELINCS or NLP: One or more components in this product are not listed on or exempt from the Inventory. Japan (ENCS) List: One or more components in this product are not listed on or exempt from the Inventory. China Inv. Existing Chemical Substances: All components in this product are listed on or exempt from the Inventory. All components in this product are listed on or Korea Existing Chemicals Inv. (KECI): exempt from the Inventory. Canada NDSL Inventory: One or more components in this product are not listed on or exempt from the Inventory. Philippines PICCS: All components in this product are listed on or exempt from the Inventory. US TSCA Inventory: All components in this product are listed on or exempt from the Inventory. New Zealand Inventory of Chemicals: All components in this product are listed on or exempt from the Inventory. One or more components in this product are Japan ISHL Listing: not listed on or exempt from the Inventory. One or more components in this product are Japan Pharmacopoeia Listing: not listed on or exempt from the Inventory. Mexico INSQ: One or more components in this product are not listed on or exempt from the Inventory. Ontario Inventory: One or more components in this product are not listed on or exempt from the Inventory. Taiwan Chemical Substance Inventory: One or more components in this product are

not listed on or exempt from the Inventory.



# 16.Other information, including date of preparation or last revision

Revision Date:	11/12/2018
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.