

# SAFETY DATA SHEET

# 1. Identification

Product identifier	VERSAFLOW 65/AL PLUS		
Other means of identification			
Brand Code	2832, 365B		
Recommended use	For Industrial Use Only		
<b>Recommended restrictions</b>	Avoid dry cutting, blasting, or dust generation.		
Manufacturer/Importer/Supplier/Distributor information			
Manufacturer			
Company name	HarbisonWalker International		
Address	1305 Cherrington Parkway, Suite 100		
	Moon Township, Pennsylvania 15108 US		
Telephone	General Phone: 412-375-6600		
Website	www.thinkHWI.com		
Emergency phone number	Not available.		

# 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 1A
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger	
Hazard statement	May cause cancer. Causes damage to organs through prolonged or repeated exposure.	
Precautionary statement		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.	
Response	If exposed or concerned: Get medical advice/attention.	
Storage	Store in a manner to minimize airborne dust.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.	

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Mullite		1302-93-8	30 - 50
Aluminium Oxide (Non-Fibrous)		1344-28-1	20 - 40

Material name: VERSAFLOW 65/AL PLUS

Chemical name	Common name and synonyms	CAS number	%
Kyanite		1302-76-7	10 - 25
Amorphous Silica	Fumed Silica Silica, crystalline free	7631-86-9	2.5 - 10
Cement, Alumina, Chemicals		65997-16-2	2.5 - 10
Fumes, Silica		69012-64-2	2.5 - 10
Titanium Dioxide		13463-67-7	2.5 - 10
Quartz (SiO2)		14808-60-7	1 - 2.5
Cristobalite		14464-46-1	< 0.5
Other components below reporta	able levels		2.5 - 10

Crystalline silica may be present at low concentrations; most of this is encapsulated in the coarse aggregate or as part of the clays or sands.

### 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	If you feel unwell, seek medical advice (show the label where possible).
5 Fire fighting measures	

### 5. Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Not available.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hydrene practices

Conditions for safe storage, including any incompatibilities

industrial hygiene practices. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value	Form
Numinium Oxide Non-Fibrous) (CAS 344-28-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Cristobalite (CAS 14464-46-1)	PEL	0.05 mg/m3	Respirable dust.
Quartz (SiO2) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
Γitanium Dioxide (CAS I3463-67-7)	PEL	15 mg/m3	Total dust.
JS. OSHA Table Z-3 (29 CFR 1910.1000) Components	Туре	Value	Form
Aluminium Oxide Non-Fibrous) (CAS 1344-28-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Amorphous Silica (CAS 7631-86-9)	TWA	0.8 mg/m3	
		20 mppcf	
Cristobalite (CAS I4464-46-1)	TWA	0.05 mg/m3	Respirable.
		1.2 mppcf	Respirable.
Fumes, Silica (CAS 99012-64-2)	TWA	0.8 mg/m3	
		20 mppcf	
Quartz (SiO2) (CAS 4808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
ïtanium Dioxide (CAS 3463-67-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
JS. ACGIH Threshold Limit Values	_		<b>F</b>
Components	Туре	Value	Form
Aluminium Oxide Non-Fibrous) (CAS  344-28-1)	TWA	1 mg/m3	Respirable fraction.
Cristobalite (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
(yanite (CAS 1302-76-7)	TWA	1 mg/m3	Respirable fraction.
/lullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
Quartz (SiO2) (CAS 4808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Fitanium Dioxide (CAS I3463-67-7)	TWA	10 mg/m3	
JS. NIOSH: Pocket Guide to Chemical Ha Components	azards Type	Value	Form
-	TWA	6 mg/m3	

US.	NIOSH:	Pocket	Guide	to	Chemical Hazards	

Components	Туре	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable dust.
Fumes, Silica (CAS 69012-64-2)	TWA	6 mg/m3	
Quartz (SiO2) (CAS 14808-60-7)	TWA 0.05 mg/m3 Respir		Respirable dust.
iological limit values	No biological exposure limits noted	for the ingredient(s).	
xposure guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.		
ppropriate engineering ontrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
dividual protection measure	s, such as personal protective equipr	nent	
Eye/face protection	Wear safety glasses with side shield	ds (or goggles).	
Skin protection			
Hand protection	Wear appropriate chemical resistant	t gloves.	
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		



General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Solid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.

Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Acids. Chlorine. Fluorine. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure.
Hazardous decomposition	No hazardous decomposition products are known

 Hazardous decomposition
 No hazardous decomposition products are known.

 products
 Products

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.
Information on toxicological effe	cts
Acute toxicity	Not known.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity	In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk" (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.		
IARC Monographs. Overall E	Evaluation of Carcinogenicity		
Amorphous Silica (CAS 7 Cristobalite (CAS 14464-4 Fumes, Silica (CAS 69012 Quartz (SiO2) (CAS 1480 Titanium Dioxide (CAS 13 <b>OSHA Specifically Regulate</b>	46-1) 2-64-2) 8-60-7)	<ul> <li>3 Not classifiable as to carcinogenicity to humans.</li> <li>1 Carcinogenic to humans.</li> <li>3 Not classifiable as to carcinogenicity to humans.</li> <li>1 Carcinogenic to humans.</li> <li>2B Possibly carcinogenic to humans.</li> <li>001-1052)</li> </ul>	
Cristobalite (CAS 14464-4		Cancer	
Quartz (SiO2) (CAS 1480		Cancer	
••	gram (NTP) Report on Carcin	-	
Cristobalite (CAS 14464-4 Quartz (SiO2) (CAS 1480		Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen. Known To Be Human Carcinogen.	
Reproductive toxicity	This product is not expected to	o cause reproductive or developmental effects.	
Developmental effects Quartz (SiO2) Developmental effects - Quartz (SiO2)	EU category	0	
Embryotoxicity Quartz (SiO2) Reproductivity		0	
Quartz (SiO2)		0	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Causes damage to organs thr	ough prolonged or repeated exposure.	
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Causes damage to organs thr harmful. Prolonged exposure	ough prolonged or repeated exposure. Prolonged inhalation may be may cause chronic effects.	
12. Ecological information			
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
Persistence and degradability	No data is available on the de	gradability of any ingredients in the mixture.	
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Other adverse effects		tal effects (e.g. ozone depletion, photochemical ozone creation , global warming potential) are expected from this component.	
13. Disposal considerations			
Disposal instructions	This product, in its present sta according to Federal regulatio	ate, when discarded or disposed of, is not a hazardous waste ns (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the ne, at the time of disposal, whether the product meets RCRA criteria	

Waste from residues / unused products       Not available.         Contaminated packaging       Not available.         14. Transport information       Not available.         DOT       Not regulated as dangerous goods.         MADE       Not regulated as dangerous goods.         IMD0       Not regulated as dangerous goods.         Transport in blk according to Not applicable.       Not regulated as dangerous goods.         Transport in blk according to Not applicable.       Annex 1 of MARPOL 7378 and the IBC Code         15. Regulatory information       Not regulated.         US federal regulations       This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard. 20 CFR 1910.1200. All chemical substances in this product are listed on the TSCA chemical substance inventory where required.         TSCA Section 12(b) Export Notification (40 CFR 302.4)       Not issied.         Not regulated.       CERCLA Hazardous Substance List (40 CFR 302.4)         Not issied.       SARA 304 Emergency release notification (an CFR 302.4)         Not regulated.       Cancer         Outry (SIG2) (CAS 14808-60-7)       Cancer         Outry (SIG2) (CAS 14808-60-7)       Immune system effects         Outry (SIG2) (CAS 14808-60-7)       immune system effects         Outry (SIG2) (CAS 14808-60-7)       immune system effects         Outry (SIG2) (CAS 14808-6	Hazardous waste code			no Waste Code can be provided by the supplier. ngement with your waste disposal partner or the
Contaminated packaging       Not available.         14. Transport information         DOT         Not regulated as dangerous goods.         IATA         Not regulated as dangerous goods.         IMDG         Not regulated as dangerous goods.         Transport in bulk according to Not applicable.         Annox It of MARPOL 7378 and Its BIC Code         15. Regulatory information         US fodoral regulations         TatsCA         Not regulated.         0 the regulations         TatsCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)         Not regulated.         CERCLA Hazardous Substance List (40 CFR 302.4)         Not isseld.         SARA 304 Emergency release notification         Not regulated.         Cerclishie (CAS 14494-45-1)         Quartz (SiO2) (CAS 14808-60-7)       Cancer         Quartz (SiO2) (CAS 14808-60-7)       Cancer         Quartz (SiO2) (CAS 14808-60-7)       Ling effects         Quartz (SiO2) (CAS 14808-60-7) <th></th> <th>Not available.</th> <th></th> <th></th>		Not available.		
DOT Not regulated as dangerous goods.         IATA Not regulated as dangerous goods.         IMDG Not regulated as dangerous goods.         Transport in bulk according to Not regulated as dangerous goods.         Transport in bulk according to Not regulated.       Not applicable.         Annex II of MARPOL 73/76 and Its IBC Code         US federal regulations       This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910. 1200. All chemical substances in this product are listed on the TSCA chemical substance inventory where required.         TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.       Not regulated.         CERCLA Hazardous Substance List (40 CFR 707, Subpt. D) Not regulated.       Not regulated.         OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)       Cristoballie (CAS 14464-46-1)         Cristoballie (CAS 14464-46-1)       Cancer Cristoballie (CAS 14464-46-1)         Quartz (SiO2) (CAS 148008-60-7)       Ling effects         Cristoballie (CAS 14464-46-1)       Immune system effects         Quartz (SiO2) (CAS 148008-60-7)       Kidney effects         Cristoballie (CAS 14464-46-1)       Kidney effects         Quartz (SiO2)	•	Not available.		
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Transport in bulk according to Annex II of MARPOL.73/78 and the IBC Code       Not applicable. <b>15. Regulatory information</b> This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All chemical substances in this product are listed on the TSCA chemical substance inventory where required. <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b> Not regulated.       Not issued. <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b> Not issued.       Not regulated. <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)</b> Cristobalite (CAS 14464-46-1) Cancer Quartz (SiO2) (CAS 14808-60-7) Cancer Cuartz (SiO2) (CAS 14808-60-7) Cuartz (SiO2) (CAS 14808-60-7) Cuartz (SiO2) (CAS 14808-60-7) Cuartz (SiO2) (CAS 14808-60-7) Ling effects Cuartz (SiO2) (CAS 14808-60-7) Ling effects Quartz (SiO2) (CAS 14808-60-7) Ling effects         Quartz (SiO2) (CAS 14808-60-7) Cuartz (SiO2) (CAS 14808-60-7) Ling effects       Immune system effects Cristobalite (CAS 14464-46-1) Ling effects         Quartz (SiO2) (CAS 14808-60-7) Ling effects       Immune system effects Cristobalite (CAS 14464-46-1) Ling effects         Quartz (SiO2) (CAS 14808-60-7) Ling effects       Immune system effects Cristobalite (CAS 14464-46-1) Ling effects         Quartz (SiO2) (CAS 14808-60-7) Ling effects       Immune system effects Cristobalite (CAS 14464-46-1) Ling effects         Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed.       SARA 311312 Hazardous Specific target organ toxicity (single or repeated exposure)	IMDG			
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Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14408-60-7) Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14408-60-7) Kidney effects Quartz (SiO2) (CAS 14408-60-7) Kidney effects Quartz (SiO2) (CAS 14408-60-7) Kidney effects Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes chemical Classified hazard Carcinogenicity categories Specific target organ toxicity (single or repeated exposure) SARA 313 (TRI reporting) Chemical name CAS number % by wt. Aluminium Oxide (Non-Fibrous) 1344-28-1 20 - 40 Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.	US federal regulations	Standard, 29 CFR 1910	.1200. All chemical sub	
CERCLA Hazardous Substance List (40 CFR 302.4)         Not listed.         SARA 304 Emergency release notification         Not listed.         OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)         Cristobalite (CAS 14464-46-1)         Cancer         Quartz (SiO2) (CAS 144808-60-7)         Mathematical metal	TSCA Section 12(b) Export I	Notification (40 CFR 707,	, Subpt. D)	
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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)         Cristobalite (CAS 14464-46-1)       Cancer         Quartz (SiO2) (CAS 14468-40-1)       Lung effects         Quartz (SiO2) (CAS 14464-46-1)       Lung effects         Quartz (SiO2) (CAS 14464-46-1)       immune system effects         Quartz (SiO2) (CAS 14464-46-1)       immune system effects         Quartz (SiO2) (CAS 14464-46-1)       kidney effects         Quartz (SiO2) (CAS 14468-60-7)       kidney effects         Superfund Amendments and Reauthorization Act of 1986 (SARA)       SARA 302 Extremely hazardous substance         Not listed.       SARA 311/312 Hazardous       Yes         chemical       Carcinogenicity       Categories       Specific target organ toxicity (single or repeated exposure)         SARA 313 (TRI reporting)       1344-28-1       20 - 40       Other federal regulations         Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List       Not regulated.       Not regulated.         Other gulated.       <				
Quartz (SiO2) (CAS 14808-60-7)       Cancer         Cristobalite (CAS 14464-46-1)       Lung effects         Quartz (SiO2) (CAS 14808-60-7)       lung effects         Cristobalite (CAS 14464-46-1)       immune system effects         Quartz (SiO2) (CAS 14808-60-7)       immune system effects         Quartz (SiO2) (CAS 144064-46-1)       kidney effects         Quartz (SiO2) (CAS 14408-40-7)       immune system effects         Quartz (SiO2) (CAS 14808-60-7)       kidney effects         Superfund Amendments and Reauthorization Act of 1986 (SARA)       SARA302         SARA 302 Extremely hazardous substance       Not regulations         Classified hazard       Carcinogenicity         categories       Specific target organ toxicity (single or repeated exposure)         SARA 313 (TRI reporting)       1344-28-1       <	<b>u</b>	d Substances (29 CFR 1	910.1001-1052)	
Cristobalite (CAS 14464-46-1)       lung effects         Quartz (SiO2) (CAS 14808-60-7)       lung effects         Cristobalite (CAS 144808-60-7)       immune system effects         Quartz (SiO2) (CAS 14808-60-7)       immune system effects         Cristobalite (CAS 144808-60-7)       immune system effects         Quartz (SiO2) (CAS 14808-60-7)       kidney effects         Superfund Amendments and Reauthorization Act of 1986 (SARA)       SaRA 302 Extremely hazardous substance         Not listed.       SARA 311/312 Hazardous       Yes         chemical       Carcinogenicity       categories       Specific target organ toxicity (single or repeated exposure)         SARA 313 (TRI reporting)       CAS number       % by wt.         Aluminium Oxide (Non-Fibrous)       1344-28-1       20 - 40         Other federal regulations       Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List       Not regulated.         Clean Air Act (CAA) Section 112 (r) Accidental Release Prevention (40 CFR 68.130)       Not regulated. <th>•</th> <th></th> <th></th> <th></th>	•			
Cristobalite (CAS 14464-46-1)       immune system effects         Quartz (SiO2) (CAS 14808-60-7)       immune system effects         Quartz (SiO2) (CAS 14808-60-7)       kidney effects         Quartz (SiO2) (CAS 14808-60-7)       kidney effects         Quartz (SiO2) (CAS 14808-60-7)       kidney effects         Superfund Amendments and Reauthorization Act of 1986 (SARA)       SARA 302 Extremely hazardous substance         Not listed.       SARA 311/312 Hazardous       Yes         chemical       Carcinogenicity       categories         SARA 313 (TRI reporting)       Carcinogenicity (single or repeated exposure)         SARA 313 (TRI reporting)       1344-28-1       20 - 40         Other federal regulations       I 344-28-1       20 - 40         Other federal regulations       Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List       Not regulated.         Not regulated.       Clean Air Act (CAA) Section 112 (r) Accidental Release Prevention (40 CFR 68.130)       Not regulated.	Cristobalite (CAS 14464-4	46-1)		
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Superfund Amendments and Reauthorization Act of 1986 (SARA)         SARA 302 Extremely hazardous substance         Not listed.         SARA 311/312 Hazardous       Yes         chemical       Carcinogenicity         categories       Specific target organ toxicity (single or repeated exposure)         SARA 313 (TRI reporting)       CAS number         Chemical name       CAS number         Aluminium Oxide (Non-Fibrous)       1344-28-1         20 - 40       Other federal regulations         Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List         Not regulated.         Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)         Not regulated.	Cristobalite (CAS 14464-4	46-1)	kidney effects	
SARA 302 Extremely hazardous substance         Not listed.         SARA 311/312 Hazardous       Yes         chemical       Carcinogenicity         categories       Specific target organ toxicity (single or repeated exposure)         SARA 313 (TRI reporting)       CAS number         Chemical name       CAS number         Aluminium Oxide (Non-Fibrous)       1344-28-1       20 - 40         Other federal regulations       Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List         Not regulated.       Not regulated.         Not regulated.       Versection 112 (r) Accidental Release Prevention (40 CFR 68.130)			-	
Not listed.         SARA 311/312 Hazardous       Yes         chemical       Carcinogenicity         Classified hazard       Carcinogenicity (single or repeated exposure)         SARA 313 (TRI reporting)       Specific target organ toxicity (single or repeated exposure)         SARA 313 (TRI reporting)       Chemical name         Chemical name       CAS number         Aluminium Oxide (Non-Fibrous)       1344-28-1       20 - 40         Other federal regulations       Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List         Not regulated.       Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)         Not regulated.       Not regulated.	-		6 (SARA)	
Chemical       Carcinogenicity         categories       Specific target organ toxicity (single or repeated exposure)         SARA 313 (TRI reporting)       CAS number       % by wt.         Aluminium Oxide (Non-Fibrous)       1344-28-1       20 - 40         Other federal regulations       Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List       Not regulated.         Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)       Not regulated.	•			
categories       Specific target organ toxicity (single or repeated exposure)         SARA 313 (TRI reporting)         Chemical name       CAS number       % by wt.         Aluminium Oxide (Non-Fibrous)       1344-28-1       20 - 40         Other federal regulations       Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List       Not regulated.         Not regulated.       Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)       Not regulated.		Yes		
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Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.	-			
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.		112 Hazardous Air Pollu	utants (HAPs) List	
	Clean Air Act (CAA) Section	112(r) Accidental Relea	se Prevention (40 CFF	R 68.130)
	•	Not required		
(SDWA)	Safe Drinking Water Act (SDWA)	Not regulated.		

#### **US state regulations**

#### California Proposition 65



**WARNING:** This product can expose you to chemicals including Quartz (SiO2): Quartz (SiO2): Quartz (SiO2), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz (SiO2) (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)	Listed: October 1, 1988 Listed: September 2, 2011	
US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))		

Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date	05-11-2015
Revision date	01-04-2022
Version #	02
Disclaimer	This information is based on our present knowledge on creation date. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.