



1. Identification

Product identifier	ZIRMUL DC; ZIRMUL DC ASSEMBLY	
Other means of identification		
Brand Code	9372, 758B	
Recommended use	For Industrial Use Only	
Recommended restrictions	None known.	
Manufacturer/Supplier information	on	
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	CHEMTREC 24 HOUR EMERGENCY #	1-800-424-9300

2. Hazard(s) identification

Classified hazards

This item is defined as an article per OSHA (29 CFR 1910.1200) and REACH and is therefore exempt from labeling. A Safety Data Sheet is available. This item is not Classified as hazardous. However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. Wear protective gloves/protective clothing/eye protection.

2.1 GHS classification of substance or mixture, and national or regional information

This item is defined as an article per OSHA (29 CFR 1910.1200) and REACH and is therefore exempt from labeling. A Safety Data Sheet is available. This item is not Classified as hazardous. However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. Wear protective gloves/protective clothing/eye protection.

Label elements

This item is defined as an article per OSHA (29 CFR 1910.1200) and REACH and is therefore exempt from labeling. A Safety Data Sheet is available. This item is not Classified as hazardous. However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. Wear protective gloves/protective clothing/eye protection.

Hazard(s) not otherwise classified (HNOC)

This item is defined as an article per OSHA (29 CFR 1910.1200) and REACH and is therefore exempt from labeling. A Safety Data Sheet is available. This item is not Classified as hazardous. However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. Wear protective gloves/protective clothing/eye protection.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Aluminium Oxide (Non-Fibrous)		1344-28-1	40 - 60
Mullite		1302-93-8	20 - 40
ZIRCONIUM SILICATE (Zircon)		10101-52-7	20 - 40
Zirconium Dioxide		1314-23-4	10 - 20
Amorphous Silica	SILICA, AMORPHOUS, FUMED SILICA (CRYSTALLINE FREE)	7631-86-9	2.5 - 10
Cement, Alumina, Chemicals		65997-16-2	1 - 2.5

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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	Direct contact with eyes may cause temporary irritation.
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 concerned: Get medical advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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. Local authorities should be advised if significant spillages cannot be contained. 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. 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. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Store locked up. Store in original container. Store away from incompatible materials (see Section Conditions for safe storage,

including any incompatibilities 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
Zirconium Dioxide (CAS 1314-23-4)	PEL	5 mg/m3	
ZIRCONIUM SILICATE (Zircon) (CAS 10101-52-7)	PEL	5 mg/m3	
US. OSHA Table Z-3 (29 CFR 1910	.1000)		
Components	Туре	Value	
Amorphous Silica (CAS 7631-86-9)	TWA	0.8 mg/m3	
		20 mppcf	

US. ACGIH Threshold Limit Components	t Values Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
Zirconium Dioxide (CAS 1314-23-4)	STEL	10 mg/m3	
	TWA	5 mg/m3	
ZIRCONIUM SILICATE (Zircon) (CAS 10101-52-7)	STEL	10 mg/m3	
	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to			
Components	Туре	Value	
Amorphous Silica (CAS 7631-86-9)	TWA	6 mg/m3	
Zirconium Dioxide (CAS 1314-23-4)	STEL	10 mg/m3	
	TWA	5 mg/m3	
ZIRCONIUM SILICATE (Zircon) (CAS 10101-52-7)	STEL	10 mg/m3	
	TWA	5 mg/m3	
ological limit values	No biological exposure limits noted	for the ingredient(s).	
	radioactive uranium and thorium. C uranium and thorium may cause lur Measurements made by Dupont du of the 5 mg/m3 OSHA PEL for resp the exposure limits established for u sand.	ng cancer. Eye contact with the ring the use of a similar mineral irable dust and/or the PEL for qu	dust may cause eye irritation. sand indicated the observance uartz ensures the user is below
propriate engineering ntrols	Good general ventilation 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.		
lividual protection measures	, such as personal protective equip	ment	
Eye/face protection	If contact is likely, safety glasses wi	th side shields are recommende	ed.
Skin protection			
Hand protection	Wear appropriate chemical resistan	t gloves.	
Other	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		
Thermal hazards	exceeding the exposure limits. Wear appropriate thermal protective	e clothing, when necessary.	
		<u>,</u>	
neral hygiene nsiderations	Always observe good personal hygi and before eating, drinking, and/or s equipment to remove contaminants	smoking. Routinely wash work	
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 exp	losive 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.
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	Strong oxidizing agents. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure.
Hazardous decomposition products	No hazardous decomposition products are known.

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 effects

Acute toxicity	Not available.
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	
Respiratory sensitization	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	May cause cancer.			
IARC Monographs. Overall	Evaluation of Carcinogenicity			
Not available.	ogram (NTP) Report on Carcinogens			
US. OSHA Specifically Regu Not listed.	ulated Substances (29 CFR 1910.1001-1050)			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects			
	This product is not expected to cause reproductive or developmental effects. Not classified.			
Specific target organ toxicity - single exposure	NUT Classified.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	Not an aspiration hazard.			
Chronic effects	Prolonged inhalation may be harmful.			
12. Ecological information	1			
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 degradability of this product.			
Bioaccumulative potential	No data available.			
Mobility in soil	No data available.			
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
13. Disposal considerations				
Disposal instructions	This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.			
Hazardous waste code	Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.			
Waste from residues / unused products	Not available.			
Contaminated packaging	Not available.			

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA. 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.

SARA 304 Emergency relea	se notification			
Not regulated.				
US. OSHA Specifically Reg	ulated Substances (29 CFR	1910.1001-1050)		
Not listed.				
uperfund Amendments and Re	-	SARA)		
Hazard categories	Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No			
SARA 302 Extremely hazar	dous substance			
Not listed.				
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
Aluminium Oxide (Non-F	ibrous)	1344-28-1	40 - 60	
ther federal regulations				
Clean Air Act (CAA) Sectior	n 112 Hazardous Air Polluta	nts (HAPs) List		
Not regulated. Clean Air Act (CAA) Sectior	n 112(r) Accidental Release	Prevention (40 CFR	68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
S state regulations				
US. California Controlled S	ubstances. CA Department	of Justice (Californi	a Health and Safet	y Code Section 11100)
US. California Controlled So Not listed.	ubstances. CA Department	of Justice (Californi	a Health and Safet	y Code Section 11100)
Not listed. US. Massachusetts RTK - S	ubstance List	of Justice (Californi	a Health and Safet	y Code Section 11100)
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS 7	ubstance List ibrous) (CAS 1344-28-1) 7631-86-9)	of Justice (Californi	a Health and Safet	y Code Section 11100)
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F	ubstance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4)		a Health and Safet	y Code Section 11100)
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9)	/ Act	a Health and Safet	y Code Section 11100)
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS 7 Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9)	/ Act	a Health and Safet	y Code Section 11100)
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9) nd Community Right-to-Know ibrous) (CAS 1344-28-1)	/ Act	a Health and Safet	y Code Section 11100)
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS US. Rhode Island RTK	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9) nd Community Right-to-Kno ibrous) (CAS 1344-28-1) 7631-86-9)	/ Act	a Health and Safet	y Code Section 11100)
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS US. Rhode Island RTK Aluminium Oxide (Non-F	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9) nd Community Right-to-Kno ibrous) (CAS 1344-28-1) 7631-86-9) ibrous) (CAS 1344-28-1)	/ Act	a Health and Safet	y Code Section 11100)
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS US. Rhode Island RTK Aluminium Oxide (Non-F US. California Proposition 6 California Safe Drinking N	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9) nd Community Right-to-Kno ibrous) (CAS 1344-28-1) 7631-86-9) ibrous) (CAS 1344-28-1)	v Act ow Law		
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS US. Rhode Island RTK Aluminium Oxide (Non-F US. California Proposition 6 California Safe Drinking N	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9) nd Community Right-to-Kno ibrous) (CAS 1344-28-1) 7631-86-9) ibrous) (CAS 1344-28-1) 55 Water and Toxic Enforcement	v Act ow Law		
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS 7 Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS 7 US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS 7 US. Rhode Island RTK Aluminium Oxide (Non-F US. California Proposition 6 California Safe Drinking Y any chemicals currently I International Inventories Country(s) or region	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9) nd Community Right-to-Kno ibrous) (CAS 1344-28-1) 7631-86-9) ibrous) (CAS 1344-28-1) 55 Water and Toxic Enforcement isted as carcinogens or repro Inventory name	v Act ow Law Act of 1986 (Proposi ductive toxins.	tion 65): This mater	ial is not known to contain On inventory (yes/n
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS 7 Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS 7 US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS 7 US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS 7 US. Rhode Island RTK Aluminium Oxide (Non-F US. California Proposition 6 California Safe Drinking N any chemicals currently I International Inventories Country(s) or region Australia	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9) nd Community Right-to-Kno ibrous) (CAS 1344-28-1) 7631-86-9) ibrous) (CAS 1344-28-1) 755 Water and Toxic Enforcement isted as carcinogens or repro Inventory name Australian Inventory of Che	Act bw Law Act of 1986 (Proposi ductive toxins.	tion 65): This mater	ial is not known to contain On inventory (yes/n
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS T Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS T US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS T US. Rhode Island RTK Aluminium Oxide (Non-F US. California Proposition 6 California Safe Drinking N any chemicals currently I International Inventories Country(s) or region Australia Canada	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9) nd Community Right-to-Kno ibrous) (CAS 1344-28-1) 7631-86-9) ibrous) (CAS 1344-28-1) 55 Water and Toxic Enforcement isted as carcinogens or repro Inventory name Australian Inventory of Che Domestic Substances List	v Act bw Law Act of 1986 (Proposi ductive toxins. emical Substances (A (DSL)	tion 65): This mater	ial is not known to contain On inventory (yes/n e Y
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS T Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS T US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS T US. Rhode Island RTK Aluminium Oxide (Non-F US. California Proposition 6 California Safe Drinking V any chemicals currently I sternational Inventories Country(s) or region Australia Canada Canada	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9) nd Community Right-to-Kno ibrous) (CAS 1344-28-1) 7631-86-9) ibrous) (CAS 1344-28-1) 55 Water and Toxic Enforcement isted as carcinogens or repro Inventory name Australian Inventory of Che Domestic Substances List Non-Domestic Substances	Act ow Law Act of 1986 (Proposi ductive toxins. emical Substances (A (DSL) List (NDSL)	tion 65): This mater	ial is not known to contain On inventory (yes/n
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS T Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS T US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS T US. Rhode Island RTK Aluminium Oxide (Non-F US. California Proposition 6 California Safe Drinking N any chemicals currently I International Inventories Country(s) or region Australia Canada	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9) nd Community Right-to-Kno ibrous) (CAS 1344-28-1) 7631-86-9) ibrous) (CAS 1344-28-1) 7631-86-9) ibrous) (CAS 1344-28-1) 753 Water and Toxic Enforcement isted as carcinogens or repro Inventory name Australian Inventory of Che Domestic Substances List Non-Domestic Substances Inventory of Existing Chem European Inventory of Exis	Act bw Law Act of 1986 (Proposi ductive toxins. emical Substances (A (DSL) List (NDSL) ical Substances in Cl	tion 65): This mater ICS)	ial is not known to contain On inventory (yes/n Y
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS T Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS T US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS T US. Rhode Island RTK Aluminium Oxide (Non-F US. California Proposition G California Safe Drinking N any chemicals currently I International Inventories Country(s) or region Australia Canada Canada China Europe	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9) nd Community Right-to-Kno ibrous) (CAS 1344-28-1) 7631-86-9) ibrous) (CAS 1344-28-1) 55 Water and Toxic Enforcement isted as carcinogens or repro Inventory name Australian Inventory of Che Domestic Substances List Non-Domestic Substances Inventory of Existing Chem European Inventory of Exis Substances (EINECS)	Act bw Law Act of 1986 (Proposi ductive toxins. emical Substances (A (DSL) List (NDSL) ical Substances in Ch ting Commercial Che	tion 65): This mater ICS) hina (IECSC)	ial is not known to contain On inventory (yes/n Y Y
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS T Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS T US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS T US. Rhode Island RTK Aluminium Oxide (Non-F US. California Proposition C California Safe Drinking V any chemicals currently I International Inventories Country(s) or region Australia Canada Canada China Europe Europe	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9) nd Community Right-to-Kno ibrous) (CAS 1344-28-1) 7631-86-9) ibrous) (CAS 1344-28-1) 55 Water and Toxic Enforcement isted as carcinogens or repro Inventory name Australian Inventory of Che Domestic Substances List Non-Domestic Substances Inventory of Existing Chem European Inventory of Exis Substances (EINECS) European List of Notified C	Act ow Law Act of 1986 (Proposi ductive toxins. emical Substances (A (DSL) List (NDSL) ical Substances in Cl ting Commercial Che hemical Substances	tion 65): This mater ICS) hina (IECSC) mical (ELINCS)	
Not listed. US. Massachusetts RTK - S Aluminium Oxide (Non-F Amorphous Silica (CAS T Zirconium Dioxide (CAS US. New Jersey Worker and Aluminium Oxide (Non-F Amorphous Silica (CAS T US. Pennsylvania Worker a Aluminium Oxide (Non-F Amorphous Silica (CAS T US. Rhode Island RTK Aluminium Oxide (Non-F US. California Proposition G California Safe Drinking N any chemicals currently I International Inventories Country(s) or region Australia Canada Canada China Europe	Substance List ibrous) (CAS 1344-28-1) 7631-86-9) 1314-23-4) d Community Right-to-Know ibrous) (CAS 1344-28-1) 7631-86-9) nd Community Right-to-Kno ibrous) (CAS 1344-28-1) 7631-86-9) ibrous) (CAS 1344-28-1) 55 Water and Toxic Enforcement isted as carcinogens or repro Inventory name Australian Inventory of Che Domestic Substances List Non-Domestic Substances Inventory of Existing Chem European Inventory of Exis Substances (EINECS)	Act bw Law Act of 1986 (Proposiductive toxins. Act of 1986 (Propos	tion 65): This mater ICS) hina (IECSC) mical (ELINCS)	ial is not known to contain On inventory (yes/n Y

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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	06-18-2015
Revision date	10-13-2016
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	Hazard(s) identification: Exempt from classification and labeling Composition / Information on Ingredients: Disclosure Overrides Handling and storage: Conditions for safe storage, including any incompatibilities Exposure controls/personal protection: Appropriate engineering controls Exposure controls/personal protection: Exposure guidelines Stability and reactivity: Conditions to avoid Stability and reactivity: Incompatible materials Disposal considerations: Hazardous waste code

No