

SAFETY DATA SHEET

1. Identification

1. Identification		
Product identifier	WM-8073 CASTABLE	
Other means of identification Brand Code	585D	
Recommended use	Not available.	
Recommended restrictions	Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations. Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name Address	HarbisonWalker International a Member of Calderys 1305 Cherrington Parkway, Suite 100 Moon Township, Pennsylvania 15108 US	
Telephone	General Phone: 412-375-6600	
Website Emergency phone number	www.thinkHWI.com CHEMTREC EMERGENCY 1-800-424-9300 US/CAN ONLY	
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 orga	ns 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	

 Response
 If exposed or concerned: Get medical advice/attention.

 Storage
 Store locked up.

 Disposal
 Dispose of contents/container in accordance with local/regional/national/international regulations.

 Hazard(s) not otherwise
 None known.

Hazard(s) not otherwise classified (HNOC)

10% of the mixture consists of component(s) of unknown acute oral toxicity. 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	51.38
Amorphous Silica	Fumed Silica Silica, crystalline free	7631-86-9	12.92
Kyanite		1302-76-7	8.93
Aluminium Oxide (Non-Fibrous		1344-28-1	2.5 - 10
Quartz (SiO2)		14808-60-7	2.5 - 10
Cement, Alumina, Chemicals		65997-16-2	5
Fumes, Silica		69012-64-2	3.6
Titanium Dioxide		13463-67-7	1 - 2.5
Kaolin		1332-58-7	0.67
Cristobalite		14464-46-1	0.21
Other components below report	table levels		2.5 - 10

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 exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). 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. 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 hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. 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.

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.
Cristobalite (CAS 14464-46-1)	PEL	0.05 mg/m3	Respirable dust.
Kaolin (CAS 1332-58-7)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Quartz (SiO2) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910	-		_
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	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		0.8 mg/m3	
		20 mppcf	
Cristobalite (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable.
		1.2 mppcf	Respirable.
Fumes, Silica (CAS 59012-64-2)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		0.8 mg/m3	
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.

Components	Туре	Value	Form
Titanium Dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limi	t Values		
Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Cristobalite (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Kyanite (CAS 1302-76-7)	TWA	1 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Titanium Dioxide (CAS 13463-67-7)	TWA	2.5 mg/m3	Respirable finescale particles
		0.2 mg/m3	Respirable nanoscale particles
US. NIOSH: Pocket Guide Components	to Chemical Hazards Type	Value	Form
		Value 6 mg/m3	Form
Components Amorphous Silica (CAS	Туре		Form Respirable dust.
Components Amorphous Silica (CAS 7631-86-9) Cristobalite (CAS	Type TWA	6 mg/m3	
Components Amorphous Silica (CAS 7631-86-9) Cristobalite (CAS 14464-46-1) Fumes, Silica (CAS	Type TWA TWA	6 mg/m3 0.05 mg/m3	
Components Amorphous Silica (CAS 7631-86-9) Cristobalite (CAS 14464-46-1) Fumes, Silica (CAS 69012-64-2)	Type TWA TWA TWA	6 mg/m3 0.05 mg/m3 6 mg/m3	Respirable dust.
Components Amorphous Silica (CAS 7631-86-9) Cristobalite (CAS 14464-46-1) Fumes, Silica (CAS 69012-64-2)	Type TWA TWA TWA	6 mg/m3 0.05 mg/m3 6 mg/m3 5 mg/m3	Respirable dust. Respirable.
Components Amorphous Silica (CAS 7631-86-9) Cristobalite (CAS 14464-46-1) Fumes, Silica (CAS 69012-64-2) Kaolin (CAS 1332-58-7) Quartz (SiO2) (CAS	Type TWA TWA TWA TWA	6 mg/m3 0.05 mg/m3 6 mg/m3 5 mg/m3 10 mg/m3 0.05 mg/m3	Respirable dust. Respirable. Total
Components Amorphous Silica (CAS 7631-86-9) Cristobalite (CAS 14464-46-1) Fumes, Silica (CAS 69012-64-2) Kaolin (CAS 1332-58-7) Quartz (SiO2) (CAS 14808-60-7)	Type TWA TWA TWA TWA TWA	6 mg/m3 0.05 mg/m3 6 mg/m3 5 mg/m3 10 mg/m3 0.05 mg/m3 for the ingredient(s). dust (total and respirable) and re Occupational exposure to nuisa	Respirable dust. Respirable. Total Respirable dust.
Components Amorphous Silica (CAS 7631-86-9) Cristobalite (CAS 14464-46-1) Fumes, Silica (CAS 69012-64-2) Kaolin (CAS 1332-58-7) Quartz (SiO2) (CAS 14808-60-7) ogical limit values	Type TWA TWA TWA TWA TWA TWA No biological exposure limits noted f Occupational exposure to nuisance should be monitored and controlled.	6 mg/m3 0.05 mg/m3 6 mg/m3 5 mg/m3 10 mg/m3 0.05 mg/m3 cor the ingredient(s). dust (total and respirable) and re Occupational exposure to nuisa Id be monitored and controlled. used. Ventilation rates should be local exhaust ventilation, or othe nmended exposure limits. If expo	Respirable dust. Respirable. Total Respirable dust. espirable crystalline silica nce dust (total and respira matched to conditions. If er engineering controls to
Components Amorphous Silica (CAS 7631-86-9) Cristobalite (CAS 14464-46-1) Fumes, Silica (CAS 69012-64-2) Kaolin (CAS 1332-58-7) Quartz (SiO2) (CAS 14808-60-7) ogical limit values osure guidelines ropriate engineering trols	Type TWA TWA TWA TWA TWA TWA TWA No biological exposure limits noted f Occupational exposure to nuisance should be monitored and controlled. and respirable crystalline silica shou Good general ventilation should be to applicable, use process enclosures, maintain airborne levels below recor	6 mg/m3 0.05 mg/m3 6 mg/m3 5 mg/m3 10 mg/m3 0.05 mg/m3 for the ingredient(s). dust (total and respirable) and re Occupational exposure to nuisa Id be monitored and controlled. used. Ventilation rates should be local exhaust ventilation, or othe nmended exposure limits. If expose to an acceptable level.	Respirable dust. Respirable. Total Respirable dust. espirable crystalline silica nce dust (total and respira matched to conditions. If er engineering controls to
Components Amorphous Silica (CAS 7631-86-9) Cristobalite (CAS 14464-46-1) Fumes, Silica (CAS 69012-64-2) Kaolin (CAS 1332-58-7) Quartz (SiO2) (CAS 14808-60-7) ogical limit values osure guidelines ropriate engineering trols	Type TWA Good general exposure limits noted for the spirable crystalline silica should be applicable, use process enclosures, maintain airborne levels below recorrestablished, maintain airborne levels below recorrestablished, maintain airborne levels	6 mg/m3 0.05 mg/m3 6 mg/m3 5 mg/m3 10 mg/m3 0.05 mg/m3 for the ingredient(s). dust (total and respirable) and re Occupational exposure to nuisa Id be monitored and controlled. used. Ventilation rates should be local exhaust ventilation, or othe mmended exposure limits. If expose to an acceptable level. nent	Respirable dust. Respirable. Total Respirable dust. espirable crystalline silica nce dust (total and respira matched to conditions. If er engineering controls to posure limits have not been
Components Amorphous Silica (CAS 7631-86-9) Cristobalite (CAS 14464-46-1) Fumes, Silica (CAS 69012-64-2) Kaolin (CAS 1332-58-7) Quartz (SiO2) (CAS 14808-60-7) ogical limit values osure guidelines ropriate engineering trols	Type TWA TWA TWA TWA TWA TWA TWA No biological exposure limits noted f Occupational exposure to nuisance should be monitored and controlled. and respirable crystalline silica shou Good general ventilation should be a applicable, use process enclosures, maintain airborne levels below recor established, maintain airborne levels s, such as personal protective equipm	6 mg/m3 0.05 mg/m3 6 mg/m3 5 mg/m3 10 mg/m3 0.05 mg/m3 for the ingredient(s). dust (total and respirable) and re Occupational exposure to nuisa Id be monitored and controlled. used. Ventilation rates should be local exhaust ventilation, or othe mmended exposure limits. If expose to an acceptable level. nent	Respirable dust. Respirable. Total Respirable dust. espirable crystalline silica nce dust (total and respira matched to conditions. If er engineering controls to posure limits have not been

Hand protection	Wear appropriate chemical resistant 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 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 exp	losive limits
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	No dangerous reaction known under conditions of normal use.

Conditions to avoidContact with incompatible materials.Incompatible materialsPowerful oxidizers. Chlorine. Fluorine.
Incompatibility is based strictly upon potential theoretical reactions between chemicals and may
not be specific to industrial application exposure.Hazardous decomposition
productsNo hazardous decomposition products are known.

11. Toxicological information

reactions

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
IIIIaiauoii	Fiolongeu innaiation may be nainniui.

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	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	ects		
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 sensitizatior	ı		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected t	o cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate mutagenic or genotoxic.	product or any components present at greater than 0.1% are	
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 I			
IARC Monographs. Overall Evaluation of Carcinogenicity Amorphous Silica (CAS 7631-86-9) Cristobalite (CAS 14464-46-1) Fumes, Silica (CAS 69012-64-2) Quartz (SiO2) (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)		 3 Not classifiable as to carcinogenicity to humans. 1 Carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 1 Carcinogenic to humans. 2B Possibly carcinogenic to humans. 	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Cristobalite (CAS 14464-46-1) Cancer			
Cristobalite (CAS 14464-46-1) Cancer Quartz (SiO2) (CAS 14808-60-7) Cancer			
	ogram (NTP) Report on Carcir	ogens	
Cristobalite (CAS 14464- Quartz (SiO2) (CAS 1480	,	Known To Be Human Carcinogen. Known To Be Human Carcinogen.	
Reproductive toxicity	This product is not expected t	o cause reproductive or developmental effects.	
Developmental effects			
Quartz (SiO2)		0	
Developmental effects - Quartz (SiO2) Embryotoxicity	EU category	0	
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 th	rough prolonged or repeated exposure.	
Aspiration hazard	Not an aspiration hazard.		

Chronic effects Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure. Prolonged exposure 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 degradability of any ingredients in the mixture.
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	

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. All chemical substances in this product are listed on the TSCA chemical substance inventory where required.

Toxic Substances Control Act (TSCA)

One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".

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

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 1910.1001-1053)

Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14808-60-7) Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14808-60-7) Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14808-60-7) Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14808-60-7)

Cancer Cancer lung effects lung effects immune system effects kidney effects kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

	SARA 311/312 Hazardous chemical	Yes				
	Classified hazard categories	Carcinogenicity Specific target orga	an toxicity (single or repeate	ed exposure)		
	SARA 313 (TRI reporting)					
	Chemical name		CAS number	% by wt.	_	
	Aluminium Oxide (Non-Fi	brous)	1344-28-1	2.5 - 10		
Ot	her federal regulations					
	Clean Air Act (CAA) Section	112 Hazardous Air	Pollutants (HAPs) List			
	Not regulated. Clean Air Act (CAA) Section	112(r) Accidental F	Release Prevention (40 CF	[:] R 68.130)		
	Not regulated.					
	Safe Drinking Water Act (SDWA)	Not regulated.				
US	state regulations					
	US. California. Candidate Cł (a))	nemicals List. Safer	Consumer Products Reg	ulations (Cal. Code Reg	s, tit. 22, 69502.3, subd.	
	Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)					
	California Proposition 65					
	WARNING: This product can expose you to chemicals including 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					
Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)		Listed: Octobe Listed: Octobe Listed: Septen	er 1, 1988			
Int	ernational Inventories					
	Country(s) or region	Inventory name			On inventory (yes/no)*	
	Australia	Australian Inventor	y of Industrial Chemicals (A	AICIS)	No	
	Canada	Domestic Substand	ces List (DSL)		No	
	Canada	Non-Domestic Sub	stances List (NDSL)		No	
	China	Inventory of Existin	ng Chemical Substances in	China (IECSC)	No	
	Europe	European Inventor Substances (EINE	y of Existing Commercial Cl CS)	hemical	No	
	Europe	European List of N	otified Chemical Substance	s (ELINCS)	No	
	Japan	Inventory of Existin	ng and New Chemical Subst	tances (ENCS)	No	
	Korea	Existing Chemicals	s List (ECL)		No	
	New Zealand	New Zealand Inver	ntory		No	
	Philippines	Philippine Inventor (PICCS)	y of Chemicals and Chemic	al Substances	No	
	Taiwan	Taiwan Chaminal C	Cubatanaa Invantan (TCCI)		Na	

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).

Taiwan Chemical Substance Inventory (TCSI)

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

Issue date	09-22-2023
Revision date	09-25-2023
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.

Taiwan

No