Safety Data Sheet ULTRABOND ECO 570

Safety Data Sheet dated: 06/19/2024 - version 2 Date of first edition: 10/27/2022



1. IDENTIFICATION

Product identifier Mixture identification: Trade name: ULTRABOND ECO 570 Trade code: 9019428 Recommended use of the chemical and restrictions on use Recommended use: Adhesive Restrictions on use: Not available Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party Company: MAPEI CORP. (USA and Puerto Rico) 1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA Phone: 954-246-8888 Responsible: RDProductSafety@mapei.com Emergency 24 hour numbers: Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887 Emergency Transport CANUTEC (Canada) 1-613-996-6666

2. HAZARD(S) IDENTIFICATION



Classification of the chemical

Eye irritation, Category 2A Respiratory Sensitization, Category 1

Skin Sensitization, Category 1

Label elements

Hazard pictograms and Signal Word



Hazard statements

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing mist/vapours/spray.
- P264 Wash skin thoroughly after handling.
- P280 Wear protective gloves/clothing and eye/face protection.
- P284 [In case of inadequate ventilation] wear respiratory protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P33 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

inhaled. May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if

Causes serious eye irritation.

P337+P313	If eye irritation persists: Get medical advice/attention.	
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- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P501 Dispose of contents/container in accordance with applicable regulations.

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not Relevant

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Qty 2.5-5 %	Name calcium oxide; quicklime	Ident. Numb. CAS:1305-78-8	Classification Skin Irrit. 2, H315; STOT SE 3,	Registration Number
2.5-5 %		EC:215-138-9	H335; Eye Dam. 1, H318	
0.49-1 %	4,4'-methylenediphenyl diisocyanate; benzene, 1,1'- methylenebis[4-isocyanato-	CAS:101-68-8 EC:202-966-0 Index:615-005- 00-9	Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Carc. 2, H351	01-2119457014-47-XXXX
0.25-0.49 %	silica sand; quartz	CAS:14808-60-7 EC:238-878-4	' STOT RE 1, H372; Carc. 1A, H350	
0.1-0.25 %	 4-methylbenzenesulfonyl isocyanate; 4- isocyanatosulphonyltoluene 	CAS:4083-64-1 EC:223-810-8 Index:615-012- 00-7	H335; Skin Irrit. 2, H315; Resp.	01-2119980050-47-XXXX

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Obtain medical attention if skin related symptoms persist.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment:

(see paragraph 4.1)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Water.

Carbon dioxide (CO2).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not Relevant

Oxidizing properties: Not Relevant

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Storage temperature: Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
calcium oxide; quicklime CAS: 1305-78-8	OSHA		Long Term: 5 mg/m3
	ACGIH		Long Term: 2 mg/m3 upper respiratory tract irritation;
	MAK	GERMANY	Long Term: 1 mg/m3
	ACGIH		Long Term: 2 mg/m3 upper respiratory tract irritation
	MAK	AUSTRIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3

	MAK	SWITZERLAN D	Long Term: 2 mg/m3
	МАК	SWITZERLAN D	Long Term: 1 mg/m3
4,4'-methylenediphenyl diisocyanate; benzene, 1,1' methylenebis[4-isocyanato- CAS: 101-68-8			Long Term: 0.005 ppm Resp sens
	MAK	GERMANY	Long Term: 0.05 mg/m3
	ACGIH		Long Term: 0.005 ppm respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
	OSHA		Short Term: Ceiling - 0.2 mg/m3 - 0.02 ppm
	MAK	AUSTRIA	Long Term: 0.05 mg/m3 - 0.005 ppm; Short Term: 0.1 mg/m3 - 0.01 ppm
	ACGIH		Long Term: 0.005 ppm respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
	OSHA		Short Term: Ceiling - 0.2 mg/m3 - 0.02 ppm
silica sand; quartz CAS: 14808-60-7	ACGIH		Long Term: 0.025 mg/m3 A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis
	MAK	AUSTRIA	Long Term: 0.15 mg/m3
	ACGIH		Long Term: 0.025 mg/m3 (R), A2 - Pulm fibrosis, lung cancer
	МАК	SWITZERLAN D	Long Term: 0.15 mg/m3
	EU		Long Term: 0.1 mg/m3 Behaviour Binding
Predicted No Effect Conc	entration	(PNFC) value	
			ater; PNEC Limit: 1 mg/l
F	- xposure R	oute: Marine w	vater; PNEC Limit: 0.1 mg/l
	•		EC Limit: 1 mg/kg
			anisms in sewage treatments; PNEC Limit: 1 mg/l
E	Exposure R	oute: Intermitt	tent release; PNEC Limit: 10 mg/l
Derived No Effect Level (DNEL) va	lues	
4,4'-methylenediphenyl	xposure R		Dermal; Exposure Frequency: Short Term, systemic effects ‹g
		oute: Human I ustry: 0.1 mg/	nhalation; Exposure Frequency: Short Term, systemic effects m3
		oute: Human I ustry: 0.1 mg/	inhalation; Exposure Frequency: Short Term, local effects m3
		oute: Human I ustry: 0.05 mg	nhalation; Exposure Frequency: Long Term, systemic effects g/m3
		oute: Human I ustry: 0.05 mg	nhalation; Exposure Frequency: Long Term, local effects g/m3
		oute: Human [25 mg/kg	Dermal; Exposure Frequency: Short Term, systemic effects
		oute: Human I 0.05 mg/m3	nhalation; Exposure Frequency: Short Term, systemic effects
		oute: Human (20 mg/kg	Dral; Exposure Frequency: Short Term, systemic effects

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Consumer: 0.05 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 0.025 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 0.025 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects Worker Industry: 28.7 mg/cm2; Consumer: 17.2 mg/cm2

Appropriate engineering controls: Not available

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment. Use adequate protective respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid Appearance and colour: paste beige Odour: characteristic Odour threshold: Not Relevant pH: Not Relevant Melting point / freezing point: Not Relevant Initial boiling point and boiling range: 100 °C (212 °F) Flash point: 100 °C (212 °F) Evaporation rate: Not Relevant Upper/lower flammability or explosive limits: Not Relevant Vapour density: Not Relevant Vapour pressure: Not Relevant Relative density: 1.45 g/cm3 Solubility in water: insoluble Solubility in oil: partly soluble Partition coefficient (n-octanol/water): Not Relevant Auto-ignition temperature: Not Relevant Decomposition temperature: Not Relevant Viscosity: Not Relevant Kinematic viscosity: > 20,5 mm2/sec (40 °C) mm2/s Explosive properties: Not Relevant Oxidizing properties: Not Relevant Solid/gas flammability: Not Relevant

Other information

Substance Groups relevant properties Not Relevant Miscibility: Not Relevant Fat Solubility: Not Relevant Conductivity: Not Relevant

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Print date

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION Information on toxicological effects

Toxicological Information of the Preparation

5	
a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	The product is classified: Eye irritation, Category 2A(H319)
d) respiratory or skin sensitisation	The product is classified: Respiratory Sensitization, Category 1(H334), Skin Sensitization, Category 1(H317)
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

calcium oxide; quicklime a) acute toxicity LD50 Oral Rat = 500 mg/kg LC50 Inhalation Rat > 6.04 mg/l 4h 4,4'-methylenediphenyl disocyanate; benzene, 1,1'-methylenebis[4- isocyanato- a) acute toxicity LD50 Oral Rat > 2000 mg/kg b) skin corrosion/irritation Skin Rabbit > 9400 mg/kg b) skin corrosion/irritation Skin Sensitization Skin Mouse Positive d) respiratory or skin sensitisation Respiratory Sensitization Inhalation Positive Skin Sensitization Inhalation Positive f) carcinogenicity g) reproductive toxicity NOAEL Inhalation Rat = 6 mg/m3 NOAEL Inhalation Rat = 12 mg/m3 silica sand; quartz a) acute toxicity socyanate; 4- isocyanate; 4-	· · · · · · · · · · · · · · · · · · ·							
4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4- isocyanato- b) skin corrosion/irritation Skin Irritant Skin Rabbit > 9400 mg/kg b) skin corrosion/irritation Skin Irritant Skin Rabbit Positive d) respiratory or skin sensitisation f) carcinogenicity f) carcinogenicity g) reproductive toxicity g) reproductive toxicity silica sand; quartz 4-methylbenzenesulfonyl a) acute toxicity k) a) acute toxicity k) b) Skin corrosion/irritation Skin Irritant Skin Rabbit Positive d) respiratory or skin Skin Sensitization Skin Mouse Positive Carcinogenicity Inhalation Positive Carcinogenicity Inhalation Rat = 6 mg/m3 NOAEL Inhalation Rat = 12 mg/m3 Silica sand; quartz a) acute toxicity LD50 Oral > 2000 mg/kg LD50 Skin > 2000 mg/kg LD50 Skin > 2000 mg/kg LD50 Skin > 2000 mg/kg	calcium oxide; quicklime	a) acute toxicit	ÿ	LD50 Ora	al Rat = 500 r	ng/kg		
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b) skin corrosion/irritation Skin Irritant Skin Rabbit Positive d) respiratory or skin sensitisation Skin Sensitization Skin Mouse Positive sensitisation Respiratory Sensitization Inhalation Positive f) carcinogenicity Garcinogenicity Inhalation Rat = 6 mg/m3 g) reproductive toxicity NOAEL Inhalation Rat = 12 mg/m3 silica sand; quartz a) acute toxicity LD50 Oral > 2000 mg/kg LD50 Skin > 2000 mg/kg LD50 Skin > 2000 mg/kg kg socyanate; 4- isocyanatosulphonyltoluen e	diisocyanate; benzene, 1,1'-methylenebis[4-	a) acute toxicit	ý	LD50 Ora	al Rat > 2000	mg/kg		
d) respiratory or skin sensitisationSkin Sensitization Skin Mouse Positived) respiratory or skin sensitisationRespiratory Sensitization Inhalation Positive Carcinogenicity Inhalation Rat = 6 mg/m3 NOAEL Inhalation Rat = 12 mg/m3silica sand; quartza) acute toxicityLD50 Oral > 2000 mg/kg LD50 Skin > 2000 mg/kg4-methylbenzenesulfonyl isocyanate; 4- isocyanatosulphonyltoluen ea) acute toxicityLC50 Inhalation Rat > 640 ppm 1h				LD50 Sk	in Rabbit > 94	00 mg/kg		
sensitisation sensitisation Respiratory Sensitization Inhalation Positive f) carcinogenicity g) reproductive toxicity Carcinogenicity Inhalation Rat = 6 mg/m3 NOAEL Inhalation Rat = 12 mg/m3 Silica sand; quartz a) acute toxicity LD50 Oral > 2000 mg/kg LD50 Skin > 2000 mg/kg LD50 Skin > 2000 mg/kg LC50 Inhalation Rat > 640 ppm 1h isocyanate; 4- isocyanatosulphonyltoluen e		b) skin corrosio	on/irritation	Skin Irrit	ant Skin Rabb	oit Positive		
f) carcinogenicity g) reproductive toxicityCarcinogenicity Inhalation Rat = 6 mg/m3 NOAEL Inhalation Rat = 12 mg/m3silica sand; quartza) acute toxicityLD50 Oral > 2000 mg/kg LD50 Skin > 2000 mg/kg4-methylbenzenesulfonyl isocyanate; 4- isocyanatosulphonyltoluen eacute toxicityLC50 Inhalation Rat > 640 ppm 1h		, , ,	or skin	Skin Sen	sitization Skir	i Mouse Positi	ve	
g) reproductive toxicity NOAEL Inhalation Rat = 12 mg/m3 silica sand; quartz a) acute toxicity LD50 Oral > 2000 mg/kg LD50 Skin > 2000 mg/kg 4-methylbenzenesulfonyl a) acute toxicity LC50 Inhalation Rat > 640 ppm 1h isocyanate; 4- isocyanatosulphonyltoluen e				Respirate	ory Sensitizati	on Inhalation	Positive	
silica sand; quartz a) acute toxicity LD50 Oral > 2000 mg/kg LD50 Skin > 2000 mg/kg 4-methylbenzenesulfonyl a) acute toxicity LC50 Inhalation Rat > 640 ppm 1h isocyanate; 4- isocyanatosulphonyltoluen e		f) carcinogenic	ity	Carcinog	enicity Inhala	tion Rat = 6 r	ng/m3	2 y
4-methylbenzenesulfonyl a) acute toxicity isocyanate; 4- isocyanatosulphonyltoluen e		g) reproductive	e toxicity	NOAEL I	nhalation Rat	= 12 mg/m3		20 d
4-methylbenzenesulfonyl a) acute toxicity LC50 Inhalation Rat > 640 ppm 1h isocyanate; 4- isocyanatosulphonyltoluen e	silica sand; quartz	a) acute toxicit	ÿ	LD50 Ora	al > 2000 mg,	′kg		
isocyanate; 4- isocyanatosulphonyltoluen e				LD50 Sk	in > 2000 mg,	/kg		
Print date 06/19/2024 Production Name LILTRABOND ECO 570	isocyanate; 4- isocyanatosulphonyltolue		у	LC50 Inf	nalation Rat >	640 ppm 1h		
Find date 00/19/2024 Floduction Name OLITADOND ECO 3/0	Print date	06/19/2024	Production N	ame	ULTRABOND I	ECO 570		Pa

Substance(s) listed on the IARC Monographs:

4,4'-methylenediphenyl Group 3 diisocyanate; benzene, 1,1'methylenebis[4-isocyanato-

silica sand; quartz

Substance(s) listed as OSHA Carcinogen(s):

silica sand; quartz

Substance(s) listed as NIOSH Carcinogen(s):

silica sand; quartz

Substance(s) listed on the NTP report on Carcinogens:

silica sand; quartz

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

Group 1

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
calcium oxide; quicklime	CAS: 1305-78-8 - EINECS: 215- 138-9	a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 1070 mg/L 96h IUCLID
4,4'-methylenediphenyl diisocyanate; benzene, 1,1'- methylenebis[4-isocyanato-	CAS: 101-68-8 - EINECS: 202- 966-0 - INDEX: 615-005-00-9	a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96
		a) Aquatic acute toxicity: EC50 Daphnia > 1000 mg/L 24
		b) Aquatic chronic toxicity : NOEC Daphnia > 10 mg/L - 21 d
		a) Aquatic acute toxicity : EC50 Algae > 1640 mg/L 72
		c) Bacteria toxicity : EC50 > 100 mg/L 3
		d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d
		e) Plant toxicity : NOEC > 1000 mg/kg - 14 d
Persistence and degradability		

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Production Name

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

UN number

DOT-UN Number: Not Applicable ADR-UN number: Not Applicable

IATA-Un number: Not Applicable

IMDG-Un number: Not Applicable

UN proper shipping name

DOT-Proper Shipping Name: Not Applicable ADR-Shipping Name: Not Applicable IATA-Technical name: Not Applicable IMDG-Technical name: Not Applicable

Transport hazard class(es)

DOT-Hazard Class: Not Applicable ADR-Class: Not Applicable IATA-Class: Not Applicable IMDG-Class: Not Applicable

Packing group

DOT Packing Group: Not Applicable ADR-Packing Group: Not Applicable IATA-Packing group: Not Applicable IMDG-Packing group: Not Applicable

Environmental hazards

Marine pollutant: No Environmental Pollutant: Not Applicable

DOT-RQ: Yes DOT-RQ - Quantity: 5000 lbs

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

Special precautions

Department of Transportation (DOT): Not Applicable Road and Rail (ADR-RID) : Not Applicable Air (IATA) : Not Applicable Sea (IMDG) : Not Applicable

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory

ISCA	listea	SUDS	tances:

calcium oxide; quicklime	is listed in TSCA	Section 8b
4,4'-methylenediphenyl diisocyanate; benzene, 1,1'- methylenebis[4-isocyanato-	is listed in TSCA	Section 8b Section 8a - PAIR Section 5
silica sand; quartz	is listed in TSCA	Section 8b

	4-methylbenzenesulfonyl is listed in TSCA Section 8b isocyanate; 4- isocyanatosulphonyltoluene
SARA	- Superfund Amendments and Reauthorization Act
0/1101	Section 302 - Extremely Hazardous Substances:
	No substances listed
	Section 304 - Hazardous substances:
	4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-
	Section 313 - Toxic chemical list:
	4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-
CERCL	A - Comprehensive Environmental Response, Compensation, and Liability Act Substance(s) listed under CERCLA:
	4,4'-methylenediphenyl diisocyanate; Reportable quantity: 5000 pounds benzene, 1,1'-methylenebis[4-isocyanato-
CAA -	Clean Air Act CAA listed substances:
	4,4'-methylenediphenyl is listed in CAA Section 112(b) - HAP Section 112(b) - HON diisocyanate; benzene, 1,1'- methylenebis[4-isocyanato-
CWA -	Clean Water Act
	CWA listed substances:
	No substances listed
	 State specific regulations rnia Proposition 65
	Substance(s) listed under California Proposition 65:
	silica sand; quartz Listed as carcinogen
Massa	ichusetts Right to know
	Substance(s) listed under Massachusetts Right to know:
	calcium oxide; quicklime
	4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-
	silica sand; quartz
Penns	vlvania Right to know
	Substance(s) listed under Pennsylvania Right to know:
	calcium oxide; quicklime
	4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-
	silica sand; guartz
Now 1	ersey Right to know
	Substance(s) listed under New Jersey Right to know:
	calcium oxide; quicklime
	4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato- silica sand; quartz
Canad	da - Federal regulations
DSL -	Domestic Substances List
	All the substances are listed in the DSL.
NDSL	- Non Domestic Substances List
	This product complies with NDSL inventory
	- National Pollutant Release Inventory
NPRI	
NPRI	NPRI (National Pollutant Release Inventory) - List of substances listed.

Safety Data Sheet dated: 6/19/2024 - version 2

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial,

Production Name

and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This SDS cancels and replaces any preceding release.

- Description Code H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H350 May cause cancer. H351 Suspected of causing cancer. H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure if inhaled. Code Hazard class and hazard category Description A.1/4/Inhal Acute Tox. 4 Acute toxicity (inhalation), Category 4 A.2/2 Skin Irrit. 2 Skin irritation, Category 2 A.3/1 Eve Dam. 1 Serious eye damage, Category 1 A.3/2A Eye Irrit. 2A Eye irritation, Category 2A Respiratory Sensitization, Category 1 A.4.1/1 Resp. Sens. 1 Skin Sensitization, Category 1 A.4.2/1 Skin Sens. 1 A.6/1A Carc. 1A Carcinogenicity, Category 1A A.6/2 Carc. 2 Carcinogenicity, Category 2 STOT SE 3 A.8/3 Specific target organ toxicity following single exposure, Category 3 A.9/1 STOT RE 1
 - Specific target organ toxicity following repeated exposure, Category 1
- A.9/2 STOT RE 2 Specific target organ toxicity following repeated exposure, Category 2

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- 2. HAZARDS IDENTIFICATION

- 3. COMPOSITION/INFORMATION ON INGREDIENTS

- 4. FIRST AID MEASURES

- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION