Safety Data Sheet ULTRABOND LANDSCAPE TURF CG

Safety Data Sheet dated: 04/29/2024 - version 7 Date of first edition: 10/28/2019



1. Identification

Product identifier

Mixture identification: Trade name: ULTRABOND LANDSCAPE TURF CG Trade code: 9023332 **Recommended use and restrictions on use** Recommended use: Polyurethane-based adhesive Restrictions on use: Not available **Supplier's details** Company: MAPEI INC. (Canada) 2900 Francis-Hughes Avenue

H7L 3J5 - Laval - QC - CAN

Phone: 1-450-662-1212

Responsable: RDProductSafety@mapei.com

Emergency phone number

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887 Emergency Transport CANUTEC (Canada) 1-613-996-6666

2. Hazard identification



Classification of the product

•	
Skin irritation, Category 2	Causes skin irritation.
Eye irritation, Category 2A	Causes serious eye irritation.
Respiratory Sensitization, Category 1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sensitization, Category 1	May cause an allergic skin reaction.
Specific target organ toxicity following repeated exposure, Category 2	May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.
Carcinogenicity, Category 2	Suspected of causing cancer if inhaled, in contact with skin and if swallowed.

Label elements

Hazard pictograms and Signal Word



Hazard statements

Hazard stateme	ents
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351	Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe vapours.
P264	Wash skin thoroughly after handling.

P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P33 8	3 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.
P321	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a doctor
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations.
Other hazards	

None

Ingredient(s) with unknown acute toxicity

None

3. Composition/information on ingredients

Substances

Not Relevant

Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

List of components

Qty	Name	Ident. Numb.	Classification	Registration Number
5-10 %	o-(p-isocyanatobenzyl)phenyl isocyanate	CAS:5873-54-1 EC:227-534-9 Index:615-005- 00-9	Carc. 2, H351; STOT RE 2, H373; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; Acute Tox. 4, H332	01-2119480143-45-XXXX
5-10 %	diphenylmethane-4,4'-diisocyanato	e 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
1-2.5 %	4-isocyanatesulphonyltoluene; tosyl isocyanate	CAS:4083-64-1 EC:223-810-8 Index:615-012- 00-7	Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334	01-2119980050-47-XXXX
1-2.5 %	2,2-dimorpholinodiethylether; Bis(2-morpholinoethyl) Ether	CAS:6425-39-4 EC:229-194-7	Eye Irrit. 2B, H320	

The actual concentration of the components listed above is withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose of safely.

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

If skin irritation or rash occurs: Get medical advice/attention.

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.

Remove contact lenses, if present and easy to do. Continue rinsing.

In case of Ingestion:

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

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages Skin Irritation

Erythema

Indication of immediate medical attention and special treatment needed, if necessary

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

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the hazardous product

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.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

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.

Use localized ventilation system.

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.

Wash skin thoroughly after handling.

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.

Adequately ventilated premises. Storage temperature: Not available

8. Exposure controls/personal protection

Control parameters

Community Occupational Exposure Limits (OEL)

Community Occupational Exposure Limits (OEL)			
	OEL Type	Country	Occupational Exposure Limit
o-(p-isocyanatobenzyl)phe isocyanate CAS: 5873-54-1	enyl MAK	AUSTRIA	Long Term: 0.05 mg/m3 - 0.005 ppm; Short Term: 0.1 mg/m3 - 0.01 ppm
diphenylmethane-4,4'- diisocyanate CAS: 101-68-8	ACGIH		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
Predicted No Effect Con	centration	(PNEC) valu	es
o-(p- isocyanatobenzyl)phenyl isocyanate CAS: 5873-54-1	Exposure R	oute: Fresh W	/ater; PNEC Limit: 1 mg/l
	Exposure R	oute: Marine	water; PNEC Limit: 0.1 mg/l
	Exposure R	oute: Soil; PN	IEC Limit: 1 mg/kg
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l		
diphenylmethane-4,4'- diisocyanate CAS: 101-68-8	Exposure Route: Fresh Water; PNEC Limit: 1 mg/l		
	Exposure R	oute: Marine	water; PNEC Limit: 0.1 mg/l
	Exposure R	oute: Soil; PN	IEC Limit: 1 mg/kg
	Exposure R	oute: Microor	ganisms in sewage treatments; PNEC Limit: 1 mg/l
	Exposure R	oute: Intermi	ttent release; PNEC Limit: 10 mg/l
Derived No Effect Level			
o-(p- isocyanatobenzyl)phenyl isocyanate CAS: 5873-54-1			Dermal; Exposure Frequency: Short Term, systemic effects 'kg; Consumer: 25 mg/kg
			Inhalation; Exposure Frequency: Short Term, systemic effects /m3; Consumer: 0.05 mg/m3
			Dermal; Exposure Frequency: Short Term, local effects g/cm2; Consumer: 17.2 mg/cm2
			Inhalation; Exposure Frequency: Short Term, local effects /m3; Consumer: 0.05 mg/m3
			Inhalation; Exposure Frequency: Long Term, systemic effects g/m3; Consumer: 0.025 mg/m3
			Inhalation; Exposure Frequency: Long Term, local effects g/m3; Consumer: 0.025 mg/m3
	Exposure R Consumer:		Oral; Exposure Frequency: Short Term, systemic effects

diphenylmethane-4,4'diisocyanate CAS: 101-68-8

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 0.1 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 0.1 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 0.05 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 0.05 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Consumer: 25 mg/kg

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

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects Consumer: 20 mg/kg

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, such as personal protective equipment (PPE)

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 Green Odour: mild Odour threshold: Not Relevant pH: 9.75 Melting point / freezing point: Not Relevant Initial boiling point and boiling range: Not Relevant Flash point: 94 °C (201 °F) Evaporation rate: Not Relevant Upper/lower flammability or explosive limits: Not Relevant Vapour density: Not Relevant Vapour pressure: Not Relevant Relative density: 1.00 g/cm3 Solubility in water: Not Relevant Solubility in oil: Not Relevant Partition coefficient (n-octanol/water): Not Relevant Auto-ignition temperature: Not Relevant Decomposition temperature: Not Relevant Viscosity: Not Relevant 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

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

Likely routes of exposure:

Skin contact, skin absorption, eye contact, inhalation and ingestion.

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin irritation, Category 2(H315)
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	The product is classified: Carcinogenicity, Category 2(H351)
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	The product is classified: Specific target organ toxicity following repeated exposure, Category 2(H373)
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

o-(p-	a) acute toxicity	LD50 Skin Rabbit > 9400 mg/kg
isocyanatobenzyl)phenyl isocyanate		
,		

LD50 Oral Rat > 2000 mg/kg

	e) germ cell mutagenicity	NOAEL Inhalation Rat = 12 mg/m3	
diphenylmethane-4,4'- diisocyanate	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg	
		LD50 Skin Rabbit > 9400 mg/kg	
	b) skin corrosion/irritation	n Skin Irritant Skin Rabbit Positive	
	d) respiratory or skin sensitisation	Skin Sensitization Skin Mouse Positive	
		Respiratory Sensitization Inhalation Positive	
	f) carcinogenicity	Carcinogenicity Inhalation Rat = 6 mg/m3	2 y
	g) reproductive toxicity	NOAEL Inhalation Rat = 12 mg/m3	20 d
4- isocyanatesulphonyltolue e; tosyl isocyanate	a) acute toxicity n	LC50 Inhalation Rat > 640 ppm 1h	
		LD50 Oral Rat = 2234 mg/kg	
2,2- dimorpholinodiethylether Bis(2-morpholinoethyl) Ether	a) acute toxicity ;	LD50 Oral Rat 300 mg/kg	

Substance(s) listed on the IARC Monographs:

diphenylmethane-4,4'-diisocyanate Group 3

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

None

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

None

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

None

12. Ecological information

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

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
o-(p-isocyanatobenzyl)phenyl isocyanate	CAS: 5873-54-1 - EINECS: 227- 534-9 - 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
diphenylmethane-4,4'-diisocyanat	e 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

2,2-dimorpholinodiethylether; CAS: 6425-39-4 a) Aquatic acute toxicity : LC50 Fish Danio rerio > 2150 mg/L 96h ECHA Bis(2-morpholinoethyl) Ether - EINECS: 229-194-7

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. Disposal considerations

Safe handling and methods for disposal

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.

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

TDG-UN number: Not Applicable ADR-UN number: Not Applicable DOT-UN Number: Not Applicable IATA-Un number: Not Applicable IMDG-Un number: Not Applicable

UN proper shipping name

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

Transport hazard class(es)

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

Packing group

TDG-Packing Group: Not Applicable ADR-Packing Group: Not Applicable

DOT 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 - Quantity: 5000 lbs Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code) Not Applicable Special precautions in connection with transport or conveyance TDG: Not Applicable Department of Transportation (DOT): Not Applicable Road and Raii (ADR-RID): Not Applicable Sea (IMDG): Not Applicable Sea (IMDG): Not Applicable IS. Regulatory information Canada - 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 NPRI (National Pollutant Release Inventory) - List of substances listed. No substances listed USA - Federal regulations TSCA - Toxic Substances Control Act All the components are listed on the TSCA inventory TSCA listed substances: - (-p-isocyanatobenzyl)phenyl is listed in TSCA Section 8b Section 8a - PAIR Section 5 isocyanate	
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 MARPOL 73/78 and the IBC Code) Not Applicable Special precautions in connection with transport or conveyance TDG: Not Applicable Department of Transportation (DOT): Not Applicable Road and Rail (ADR-RID): Not Applicable Air (IATA): Not Applicable Sea (IMDG): Not Applicable Sea (IMDG): Not Applicable Sea (IMDG): Not Applicable IS. Regulatory information Canada - 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 NPRI - National Pollutant Release Inventory) - List of substances listed. No substances listed USA - Federal regulations TSCA - Toxic Substances Control Act All the components are listed on the TSCA inventory TSCA listed substances: o-(p-isocyanatobenzyl)phenyl is listed in TSCA Section 8b Section 8a - PAIR Section 5	
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diphenylmethane-4,4'-diisocyanate is listed in TSCA Section 8b Section 8a - PAIR Section 5	
4-isocyanatesulphonyltoluene; is listed in TSCA Section 8b tosyl isocyanate	
2,2-dimorpholinodiethylether; is listed in TSCA Section 8b Bis(2-morpholinoethyl) Ether	
SARA - Superfund Amendments and Reauthorization Act	
Section 302 - Extremely Hazardous Substances:	
No substances listed	
Section 304 - Hazardous substances:	
diphenylmethane-4,4'-diisocyanate	
Section 313 - Toxic chemical list:	
o-(p-isocyanatobenzyl)phenyl isocyanate	
diphenylmethane-4,4'-diisocyanate	
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act	
Substance(s) listed under CERCLA:	
diphenylmethane-4,4'-diisocyanate Reportable quantity: 5000 poun	ds
CAA - Clean Air Act CAA listed substances:	
	ON
diphenylmethane-4,4'-diisocyanate is listed in CAA Section 112(b) - HAP Section 112(b) - H	
CWA - Clean Water Act CWA listed substances:	
No substances listed	
Print date 04/29/2024 Production Name ULTRABOND LANDSCAPE TURF CG	Page n.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

No substances listed

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

diphenylmethane-4,4'-diisocyanate

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

diphenylmethane-4,4'-diisocyanate

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

o-(p-isocyanatobenzyl)phenyl isocyanate

diphenylmethane-4,4'-diisocyanate

16. Other information

Safety Data Sheet dated: 4/29/2024 - version 7

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, 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.

Code Description

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H320 Causes eye irritation
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause 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.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A
A.3/2B	Eye Irrit. 2B	Eye irritation, Category 2B
A.4.1/1	Resp. Sens. 1	Respiratory Sensitization, Category 1
A.4.2/1	Skin Sens. 1	Skin Sensitization, Category 1
A.6/2	Carc. 2	Carcinogenicity, Category 2
A.8/3	STOT SE 3	Specific target organ toxicity following single exposure, Category 3
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
- 5. FIRE-FIGHTING MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION

- 16. OTHER INFORMATION