

SDS Revision: Version 1

SDS Revision Date: 1/12/2022

## 1. Identification

### 1.1. Product identifier

**Product Identity** U 283X

**Alternate Names** U 283X

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use** See Technical Data Sheet.

### 1.3. Details of the supplier of the safety data sheet

**Company Name** STABOND CORPORATION  
1722 W. 139th Street, GARDENA CA. 90249

**Customer Service: STABOND CORPORATION** (310) 380-6168 Mon. to Fri. 07:00 – 15:30 PT

**Emergency Contact: CHEMTREC** (800) 424-9300 24-hour

## 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

Acute Tox. 4;H332	Harmful if inhaled.
Skin Irrit. 2;H315	Causes skin irritation.
Eye Dam. 2A;H319	Causes serious eye irritation.
Skin Sens. 1;H317	May cause an allergic skin reaction.
Resp. Sens. 1;H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2;H351	Suspected of causing cancer.
STOT SE 3;H335	May cause respiratory irritation.
STOT RE 2;H373	May cause damage to organs through prolonged or repeated exposure. Specific Target Organs: (respiratory system)

### 2.2. Label elements



**Danger**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergic or asthmatic 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.

**[Prevention]**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust, fume, gas, mist, vapors, spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, eye protection, face protection.

**[Response]**

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P308+313 IF exposed or concerned: Get medical advice or attention.

P321 Specific treatment (see information on this label).

P332+313 IF SKIN IRRITATION OCCURS: Get medical advice or attention.

P333 If skin irritation or a rash occurs:

P337+313 If eye irritation persists: Get medical advice or attention.

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER, doctor or physician.

P362 Take off contaminated clothing and wash before reuse.

**[Storage]**

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

**[Disposal]**

P501 Dispose of contents or container in accordance with local and national regulations.

### 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Isocyanic acid, polymethylenepoly- phenylene ester, polymer with methyloxirane polymer with oxirane ether with 1,2,3-pro CAS Number: 0058228-05-0	50 - 75	Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319 Resp. Sens. 1;H334 STOT SE 3;H335 STOT RE 2;H373 Acute Tox. 4;H332	----
4,4'-Methylenediphenyl diisocyanate CAS Number: 0000101-68-8	10 - 25	Acute Tox. 4;H332 STOT RE 2;H373 STOT SE 3;H335: C ≥ 5 % Eye Irrit. 2;H319: C ≥ 5 % Skin Irrit. 2;H315: C ≥ 5 % Resp. Sens. 1;H334: C ≥ 0,1 % Skin Sens. 1;H317 Carc. 2;H351	----

Diphenylmethanediisocyanate (isomers and homologues) CAS Number: 0009016-87-9	5 - 10	Acute Tox. 4;H332 Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H335 Skin Sens. 1;H317 Resp. Sens. 1;H334 STOT RE 2;H373	----
Diphenylmethane diisocyanate, mixed isomers CAS Number: 0026447-40-5	1 - 5	Acute tox. 4;H332 STOT RE 2;H373 STOT SE 3;H335: C ≥ 5 % Eye Irrit. 2;H319: C ≥ 5 % Skin Irrit. 2;H315: C ≥ 5 % Resp. Sens. 1;H334: C ≥ 0,1 % Skin Sens. 1;H317 Carc. 2;H351	----

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

\*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

## Section 4. First aid measures

### 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eyes</b>	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
<b>Ingestion</b>	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. If vomiting should occur spontaneously keep victims head below knees to prevent aspiration into the lungs.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Overview</b>	No specific symptom data available. Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure. Treat symptomatically. Check section 2.2 (GHS Label Elements) for further details.
<b>Inhalation</b>	Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms of breathing difficulties if inhaled.
<b>Eyes</b>	Causes serious eye irritation.
<b>Skin</b>	May cause an allergic skin reaction. Causes skin irritation.

## Section 5. Fire-fighting measures

### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.

Unsuitable extinguishing media: Do not use; water jet.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Burning may produce fumes of carbon dioxide, carbon monoxide, hydrogen cyanide, phenols and nitrous oxides.

Avoid breathing dust, fume, gas, mist, vapors, spray.

### 5.3. Advice for fire-fighters

#### SPECIAL FIREFIGHTING PROCEDURES

Firefighters must wear positive pressure self-contained breathing apparatus and full protective clothing to protect against isocyanate vapors. IF WATER IS USED, USE LARGE AMOUNTS, AS WATER WILL REACT VIGOROUSLY WITH THE HOT MATERIAL.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS

Down-wind personnel must be evacuated. Do not reseal contaminated containers as pressure build-up may rupture them. Water contamination will produce Carbon dioxide.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

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## Section 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapor levels are below the Lower Explosive Limit before re-entering.

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3. Methods and material for containment and cleaning up

Major: Evacuate and ventilate spill area. Prevent entry into water system. Wear full protective equipment.

Minor: Absorb with inert absorbent material.

## Section 7. Handling and storage

### 7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Precautions should be taken to minimize exposure to atmospheric humidity or water as carbon dioxide may be formed which, in closed containers can result in pressurization. Care should be taken when re-opening partly used containers.

Store indoors at 50-90 deg F. in original, unopened containers. Protect from atmospheric moisture. Replace outage with inert dry gas as nitrogen.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]

### 7.2. Conditions for safe storage, including any incompatibilities

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.

Examination of lung function should be carried out on a regular basis on persons applying this preparation.

Incompatible materials: Water, acid, base, alcohols, metal compounds, surface active materials

Check section 2.2 (GHS Label Elements) for further details. - [Storage]

### 7.3. Specific end use(s)

No data available.

## Section 8. Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure

CAS No.	Ingredient	Source	Value
0000101-68-8	4,4'-Methylenediphenyl diisocyanate	OSHA	C 0.2 mg/m <sup>3</sup> (0.02 ppm)
		ACGIH	TWA: 0.005 ppm Ceiling: 0.01 ppm
		NIOSH	TWA 0.05 mg/m <sup>3</sup> (0.005 ppm) C 0.2 mg/m <sup>3</sup> (0.020 ppm) [10-minute]
0009016-87-9	Diphenylmethanediisocyanate (isomers and homologues)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0026447-40-5	Diphenylmethane diisocyanate, mixed isomers	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0058228-05-0	Isocyanic acid, polymethylenepoly-phenylene ester, polymer with methyloxirane polymer with oxirane ether with 1,2,3-pro	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

### 8.2. Exposure controls

#### Respiratory

Atmospheric levels should be maintained below the exposure guideline. Use an approved, full-face, supplied air respirator or a NIOSH approved positive pressure, self-contained breathing apparatus if these levels are exceeded.

#### Eyes

Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

#### Skin

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.

#### Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

**Other Work Practices** Eye wash fountain or bottles. Solvent insoluble barrier hand cream. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details.

## Section 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Color: Translucent amber    Physical State: Liquid
<b>Odor</b>	Not Measured
<b>Odor threshold</b>	Not determined
<b>pH</b>	Not Measured
<b>Melting point / freezing point</b>	Not Measured
<b>Initial boiling point and boiling range</b>	DECOMPOSES @ 646 F
<b>Flash Point</b>	> 350 F COC
<b>Evaporation rate (Ether = 1)</b>	SLOWER THAN ETHER
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> NA <b>Upper Explosive Limit:</b> NA
<b>Vapor pressure (Pa)</b>	Not Measured
<b>Vapor Density</b>	HEAVIER THAN AIR
<b>Relative Density</b>	1.1 (H <sub>2</sub> O=1)
<b>Solubility in Water</b>	Nil
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature</b>	Not Measured
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cSt)</b>	Not Measured
<b>VOC Content</b>	Not Measured
<b>Solubility in Water</b>	REACTS WITH WATER

### 9.2. Other information

No other relevant information.

## Section 10. Stability and reactivity

### 10.1. Reactivity

MAY OCCUR

In presence of strong bases, water or temperatures over 160 C. Water contamination gives off CO<sub>2</sub>, & may rupture containers

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No data available.

**10.4. Conditions to avoid**

Keep away from all sources of ignition or heat.

**10.5. Incompatible materials**

Water, acid, base, alcohols, metal compounds, surface active materials

**10.6. Hazardous decomposition products**

Burning may produce fumes of carbon dioxide, carbon monoxide, hydrogen cyanide, phenols and nitrous oxides.

**Section 11. Toxicological information****Acute toxicity**

Based on the properties of the isocyanate content of this product, respiratory exposure may cause acute irritation and/or sensitization of the respiratory system resulting in asthmatic symptoms, wheezing and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to airborne concentrations of isocyanates well below the occupational exposure limit. Repeated exposure may lead to permanent respiratory disability.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Isocyanic acid, polymethylenepoly- phenylene ester, polymer with methyloxirane polymer with oxirane ether with 1,2,3-pro - (58228-05-0)	No data available	No data available	No data available	No data available	No data available
4,4'-Methylenediphenyl diisocyanate - (101-68-8)	7,616.00, Rat - Category: NA	9,400.00, Rabbit - Category: NA	No data available	No data available	No data available
Diphenylmethanediisocyanate (isomers and homologues) - (9016-87-9)	49,000.00, Rat - Category: NA	9,400.00, Rabbit - Category: NA	No data available	No data available	No data available
Diphenylmethane diisocyanate, mixed isomers - (26447-40-5)	6,400.00, Rat - Category: NA	6,200.00, Rabbit - Category: NA	No data available	No data available	No data available

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
0000101-68-8	4,4'-Methylenediphenyl diisocyanate	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
		ACGIH	No Established Limit
0009016-87-9	Diphenylmethanediisocyanate (isomers and homologues)	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
		ACGIH	No Established Limit
0026447-40-5	Diphenylmethane diisocyanate, mixed isomers	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
		ACGIH	No Established Limit
0058228-05-0		OSHA	Regulated Carcinogen: No;

Isocyanic acid, polymethylenepoly-phenylene ester, polymer with methyloxirane polymer with oxirane ether with 1,2,3-pro	NTP	Known: No; Suspected: No;
	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
	ACGIH	No Established Limit
Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	4	Harmful if inhaled.
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2A	Causes serious eye irritation.
Respiratory sensitization	1	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	2	Suspected of causing cancer.
Reproductive toxicity	---	Not Applicable
STOT-single exposure	3	May cause respiratory irritation.
STOT-repeated exposure	2	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	---	Not Applicable

## Section 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Isocyanic acid, polymethylenepoly- phenylene ester, polymer with methyloxirane polymer with oxirane ether with 1,2,3-pro - (58228-05-0)	Not Available	Not Available	Not Available
4,4'-Methylenediphenyl diisocyanate - (101-68-8)	> 3,000, Fish	Not Available	1,640.00 (72 hr), Algae
Diphenylmethanediisocyanate (isomers and homologues) - (9016-87-9)	1,000.00, Danio rerio	1,000.00, Daphnia magna	Not Available
Diphenylmethane diisocyanate, mixed isomers - (26447-40-5)	Not Available	1,000.00, Daphnia magna	4,300.00 (72 hr), Chlorella vulgaris

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.



**12.6. Other adverse effects**

No data available.

**Section 13. Disposal considerations****13.1. Waste treatment methods**

Observe all federal, state and local regulations when disposing of this substance.

**Section 14. Transport information**

	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>14.1. UN number</b>	UN3082	UN3082	UN3082
<b>14.2. UN proper shipping name</b>	UN3082, Environmentally hazardous substances, liquid, n.o.s., (U 283X), 9, III	Environmentally hazardous substances, liquid, n.o.s., (U 283X)	Environmentally hazardous substances, liquid, n.o.s., (U 283X)
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> 9 <b>Sub Class:</b> Not Applicable	<b>IMDG:</b> 9 <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> 9 <b>Sub Class:</b> Not Applicable
<b>14.4. Packing group</b>	III	III	III
<b>14.5. Environmental hazards</b>			
<b>IMDG</b>	Marine Pollutant: No;		
<b>14.6. Special precautions for user</b>	Not Applicable		

**Section 15. Regulatory information**

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act ( TSCA)** All components of this material are either listed or exempt from listing on the TSCA Inventory.

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

4,4'-Methylenediphenyl diisocyanate

Diphenylmethanediisocyanate (isomers and homologues)

**Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 Label Warning:**

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**Section 16. Other information**

**SDS Revision History**

<b>Version 1</b>	<b>Initial SDS issued</b>	<b>1/12/2022</b>
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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergic or asthmatic 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.

ALL INFORMATION IS BASED UPON DATA FROM MFG'S AND/OR TECHNICAL SOURCE, & IS BELIEVED TO BE ACCURATE. CONDITIONS OF USE ARE BEYOND OUR CONTROL & THEREFORE USERS ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN CONDITIONS TO DETERMINE SUITABILITY FOR THEIR PURPOSE, & THEY ASSUME ALL RISKS OF USE, HANDLING, & DISPOSAL, OR FROM USE OF INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH OTHER MATERIAL OR IN ANY OTHER PROCESS.

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