

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Identifier:</b>	HydroSeal H2O Urethane Part A
<b>Recommended uses:</b>	Decorative coating/sealer for various substrates.
<b>Restrictions on uses:</b>	None identified
<b>Supplier:</b>	Maxxon Corporation, 920 Hamel Road • PO Box 253 • Hamel, MN 55340
<b>Company Telephone/Fax:</b>	(763) 478-9600 / (763) 478-2431
<b>Emergency Telephone Number:</b>	(800) 424-9300 (CHEMTREC)
<b>Other Identification:</b>	Aliphatic Isocyanate

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture:**

Resp. Sens. 1	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Acute Tox. 4	H332 - Harmful if inhaled.
Skin Sens. 1	H317 - May cause an allergic skin reaction.
STOT SE 3	H335 - May cause respiratory irritation.

**Hazard pictograms (GHS-US)****Signal word (GHS-US)**

Danger

**Hazard statements (GHS-US)**

H332 - Harmful if inhaled  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H317 - May cause an allergic skin reaction  
H335 - May cause respiratory irritation

**Precautionary statements (GHS-US)**

P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P284 - In case of inadequate ventilation wear respiratory protection  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P304+P340 - If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing  
P302+P352 - If on skin: Wash with plenty of water  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

**Hazard description:**

CAUTION! Contains Isocyanates. Harmful if inhaled. May cause skin, eye and respiratory tract irritation. Possible sensitizer. Reacts with water, alcohols, based and amines and releases large amounts of carbon dioxide gas.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL NAME	%	PRODUCT IDENTIFIER
Homopolymer of HDI	99.0%	(CAS-No.) 28182-81-2
Hexamethylene-1,6-Diisocyanate	<1.0%	(CAS-No.) 822-06-0

**4. FIRST AID MEASURES**

<b>General Advice:</b>	Remove contaminated clothing
<b>If Inhaled:</b>	Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.
<b>If on the skin:</b>	Wash affected areas thoroughly with soap and water. Immediate medical attention required.
<b>If in the eyes:</b>	In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.
<b>If swallowed:</b>	Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.
<b>Most Important Symptoms/effects:</b>	No further information available.

**5. FIRE FIGHTING MEASURES**

<b>Suitable extinguishing media:</b>	Water, dry extinguishing media, carbon dioxide, foam
<b>Hazards during fire-fighting:</b>	Nitrous gases, fumes/smoke, isocyanate, vapor
<b>Advice for fire-fighters:</b>	<b>Protective equipment for fire-fighting:</b> Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions, protective equipment and emergency procedures:</b>	Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.
<b>Environmental precautions:</b>	Do not discharge into drains/surface waters/groundwater.
<b>Methods and material for containment and cleanup:</b>	Dike spillage. For small amounts: Absorb isocyanate with suitable absorbent material. Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area.

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## 7. HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	General advice: Mix thoroughly before use. If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.
Protection against fire and explosion:	No explosion proofing necessary.
<b>Conditions for safe storage:</b>	
General advice:	Formation of CO <sub>2</sub> and build up of pressure possible. Keep container tightly closed and in a well-ventilated place. Outage of containers should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture.
Suitable materials for containers:	Carbon steel, High density polyethylene, low density polyethylene, stainless steel
Storage temperature:	50-95F, protect against moisture

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Components with occupational exposure limits:</b>	Hexamethylene-1,6- OSHA CLV 0.02 ppm Diisocyanate (HDI) ACGIH TWA value 0.005 ppm
Advice on system design:	Provide local exhaust ventilation to maintain recommended PEL
<b>Personal Protective Equipment</b>	
Respiratory protection:	For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life and Health, use NIOSH-certified full face piece pressure demand self-contained breathing apparatus (SCBA) or a full face piece pressure demand supplied-air respirator (SAR) with escape provisions. When atmospheric levels may exceed the occupational exposure limit, NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as appropriate precautions and change out schedules are in place.
Hand protection:	Chemical resistant protective gloves, suitable materials, chloroprene rubber, chlorinated polyethylene, polyvinyl chloride, butyl rubber, fluoroelastomer.
Eye protection:	Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.
Body protection:	Suitable materials, saran-coated material.
General safety and hygiene measures:	Wear protective clothing as necessary to prevent contact. Eye wash fountains and safety showers must be easily accessible. Observe the appropriate PEL value. Wash soiled clothing immediately. Contaminated equipment or clothing should be cleaned after each use or disposed of.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form:</b>	liquid
<b>Odor:</b>	faint odor
<b>Color:</b>	colorless to light yellow
<b>pH value:</b>	NA
<b>Boiling Point:</b>	NA
<b>Vapor pressure:</b>	0.00001 mm Hg @25C
<b>Bulk density:</b>	9.59 lbs./US gallon
<b>% volatile by volume:</b>	Negligible
<b>Solubility in water:</b>	Insoluble, reacts slowly with water to liberate CO <sub>2</sub> gas.

**10. STABILITY AND REACTIVITY**

<b>Conditions to avoid:</b>	moisture, excessive heat
<b>Substance to avoid:</b>	water, alcohols, strong bases, substances that react with isocyanates.
<b>Possibility of hazardous reactions:</b>	Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohols. Reacts with acids. Reacts with alkalis. Reacts with amines. Risk of exothermic reaction. Risk of violent reaction. Risk of polymerization. Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.
<b>Hazardous decomposition products:</b>	carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors.
<b>Corrosion to metals:</b>	No corrosive effect on metal.

**11. TOXICOLOGICAL INFORMATION****Information on toxicological effects**

<b>Acute toxicity:</b>	LD/LC50 values: Not harmful by skin contact or if swallowed. Harmful by inhalation. Inhalation of vapors may cause irritation of the mucous membranes of the nose, throat or trachea, breathlessness, chest discomfort, difficult breathing and reduced pulmonary function.
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HEXAMETHYLENE DIISOCYANATE		
Oral	LD50	>5000 mg/kg (rat)(OECD 401)
Inhalation	LC50(4h)	400 mg/m <sup>3</sup> (rat)(OECD 401)
Dermal	LD50	>7000 mg/kg (rat)(OECD 402)

**Primary irritant effect:**

<b>On the skin:</b>	No irritating effect (OECD 404), rabbit
<b>On the eye:</b>	No irritating effect (OECD 405), rabbit
<b>Inhalation:</b>	may cause respiratory irritation

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**11. TOXICOLOGICAL INFORMATION** *Continued*

**Additional toxicological information:**

Carcinogenic categories:	OSHA-Ca. Substance not listed
Sensitization:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carcinogenicity:	not considered to be a carcinogen
Mutagenicity:	not considered to be genotoxic
Reproductive toxicity:	not considered hazardous to the reproduction

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**12. ECOLOGICAL INFORMATION**

<b>Aquatic toxicity:</b>	Is not acutely harmful to aquatic organisms
<b>Persistence and degradability:</b>	Not biodegradable
<b>Bioaccumulative Potential:</b>	Not bioaccumulable
<b>Mobility in soil:</b>	Adsorption to solid soil phase is not expected.

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**13. DISPOSAL CONSIDERATIONS**

<b>Waste disposal of substance:</b>	Incinerate or dispose of in a licensed facility. Do not discharge substance / product into sewer system.
<b>Container disposal:</b>	Containers must be emptied before disposal. Dispose containers in accordance with local government guidelines.

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**14. TRANSPORTATION INFORMATION**

<b>Land transport USDOT:</b>	Not classified as a dangerous good
<b>Sea transport IMDG:</b>	Not classified as a dangerous good
<b>Air transport IATA/ICAO:</b>	Not classified as a dangerous good
<b>Further Information:</b>	When in individual containers of less than the product Reportable Quantity, this material ships as non-regulated.

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**15. REGULATORY INFORMATION**

<b>Sara Section 312:</b>	Acute and Chronic health hazard
<b>Section 355:</b>	Substance not listed
<b>Section 313:</b>	ERCLA RQ 100 lbs. for hexamethylene diisocyanate
<b>Carcinogenic categories</b>	
EPA:	not listed
IARC:	not listed
NTP:	not listed
TSCA listing:	Listed
<b>California Prop. 65:</b>	This product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

**16. OTHER INFORMATION**

HMIS Rating:

