## Safety Data Sheet acc. to OSHA HCS

Printing date 05/31/2016



Reviewed on 10/27/2015

## **1** Identification

- · Product identifier
- · Trade name: 39997 Rigid Urethane Foam
- · Article number: 39997
- · Application of the substance / the mixture Assembly foam
- Details of the supplier of the safety data sheet

• Manufacturer/Supplier: SEM Products Inc. 1685 Overview Drive Rock Hill, SC 29730 803 207 8225

· Information department:

cust\_care@semproducts.com : SEM Products,Inc. 1685 Overview Dr. Rock Hill, SC 29730 : phone 1-800-831-1122, M - TH 7am - 4pm EDT

• Emergency telephone number: CHEMTREC 1-800-424-9300

# **2** Hazard(s) identification

· Classification of the substance or mixture

GHS08 Health hazard

Resp. Sens. 1 H334	May cause allergy	or asthma symptoms or	breathing difficulties if inhaled.
--------------------	-------------------	-----------------------	------------------------------------

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

GHS07

Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.

Skin Irrit. 2 H515 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- Skin Sens. 1 H317 May cause an allergic skin reaction.
- STOT SE 3 H335 May cause respiratory irritation.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

• *Hazard-determining components of labeling:* diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate POLYOL

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Trade name: 39997 Rigid Urethane Foam

	(Contd. of page 1)
methylenediphen	
Hazard statemen	
H332 Harmful if	
H315 Causes ski	
H319 Causes ser	rious eye irritation.
H334 May cause	e allergy or asthma symptoms or breathing difficulties if inhaled.
	e an allergic skin reaction.
H351 Suspected	of causing cancer.
H335 May cause	e respiratory irritation.
H373 May cause	e damage to organs through prolonged or repeated exposure.
Precautionary st	tatements
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P284	[In case of inadequate ventilation] wear respiratory protection.
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
	38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P363	Wash contaminated clothing before reuse.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P302 + P352	
	IF ON SKIN: Wash with plenty of water.
P362+P364	IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse.
P362+P364 P405	IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Store locked up.
P362+P364 P405 P403+P233	IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Store locked up. Store in a well-ventilated place. Keep container tightly closed.
P362+P364 P405 P403+P233	<ul> <li>IF ON SKIN: Wash with plenty of water.</li> <li>Take off contaminated clothing and wash it before reuse.</li> <li>Store locked up.</li> <li>Store in a well-ventilated place. Keep container tightly closed.</li> <li>Dispose of contents/container in accordance with local/regional/national/international</li> </ul>
P302+P352 P362+P364 P405 P403+P233 P501 Classification sy	<ul> <li>IF ON SKIN: Wash with plenty of water.</li> <li>Take off contaminated clothing and wash it before reuse.</li> <li>Store locked up.</li> <li>Store in a well-ventilated place. Keep container tightly closed.</li> <li>Dispose of contents/container in accordance with local/regional/national/international regulations.</li> </ul>
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 $\cdot$  Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

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• **vPvB:** Not applicable.

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## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description:

*Mixture: consisting of the following components. Weight percentages* 

Weight percentages

· Dangerous	components:	
	POLYOL	40 - 60%
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	13 - 30%
101-68-8	4,4'-methylenediphenyl diisocyanate	13 - 30%
3296-90-0	DIBROMONEOPENTYL GLYCOL	1.5 - 5%
26447-40-5	methylenediphenyl diisocyanate	1.5 - 5%

#### 4 First-aid measures

#### · Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **5** Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### 6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. (Contd. on page 4)

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- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- · Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# 7 Handling and storage

#### · Handling:

- · Precautions for safe handling
- No special measures required.
- Thorough dedusting.
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

*Components with limit values that require monitoring at the workplace:* 

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

#### 101-68-8 4,4'-methylenediphenyl diisocyanate

*PEL Ceiling limit value:* 0.2 mg/m<sup>3</sup>, 0.02 ppm

- REL Long-term value: 0.05 mg/m<sup>3</sup>, 0.005 ppm Ceiling limit value:  $0.2 \times mg/m^3$ ,  $0.02 \times ppm$ \*10-min
- TLV Long-term value: 0.051 mg/m<sup>3</sup>, 0.005 ppm
- Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.

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· Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### • Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

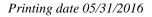
• Eye protection:



Tightly sealed goggles

#### 9 Physical and chemical properties

· Information on basic physical and c	hemical properties
• General Information	
· Appearance:	<b>7</b> · · · <b>1</b>
Form:	Liquid
Color:	According to product specification
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 190 °C
· Flash point:	>93 °C
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	400 °C
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
• Danger of explosion:	Product does not present an explosion hazard. In use, may form flammable/explosive vapour-air mixture.
	(Contd. on page 6)



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		(Contd. of page 5
Explosion limits:		
Lower:	0.4 Vol %	
Upper:	0.0 Vol %	
Vapor pressure:	Not applicable.	
Density at 20 °C:	1.1744 g/cm <sup>3</sup>	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/wo	nter): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0 %	
Solids content:	100.0 %	
Other information	No further relevant information available.	

# **10 Stability and reactivity**

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### **11 Toxicological information**

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

101-68-8 4,4'-methylenediphenyl diisocyanate

Oral LD50 2200 mg/kg (mouse)

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.

· Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

*The product shows the following dangers according to internally approved calculation methods for preparations: Harmful* 

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Irritant		(Contd. of page 6)
	nic categories	
	ernational Agency for Research on Cancer)	
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	3
101-68-8	4,4'-methylenediphenyl diisocyanate	3
3296-90-0	DIBROMONEOPENTYL GLYCOL	2B
• NTP (Nati	onal Toxicology Program)	
3296-90-0	DIBROMONEOPENTYL GLYCOL	R
· OSHA-Ca	(Occupational Safety & Health Administration)	
None of the	e ingredients is listed.	

# **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- General notes: Generally not hazardous for water
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

# **13 Disposal considerations**

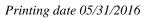
· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

· UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
· Class	Void	



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		(Contd. of page 7)
· Packing group · DOT, ADR, IMDG, IATA	Void	
• Environmental hazards: • Marine pollutant:	No	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex A MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.	
· UN "Model Regulation":	Void	

# **15 Regulatory information**

\*

· Safety, heal · Sara	th and environmental regulations/legislation specific for the substance or n	nixture
· Section 355	(extremely hazardous substances):	
None of the	ingredient is listed.	
· Section 313	(Specific toxic chemical listings):	
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	
101-68-8	4,4'-methylenediphenyl diisocyanate	
3296-90-0	DIBROMONEOPENTYL GLYCOL	
26447-40-5	methylenediphenyl diisocyanate	
· TSCA (Toxi	c Substances Control Act):	
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	
101-68-8	4,4'-methylenediphenyl diisocyanate	
3296-90-0	DIBROMONEOPENTYL GLYCOL	
26447-40-5	methylenediphenyl diisocyanate	
· Proposition		
· Chemicals k	nown to cause cancer:	
3296-90-0	DIBROMONEOPENTYL GLYCOL	
· Chemicals k	nown to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
· Chemicals k	nown to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
· Chemicals k	nown to cause developmental toxicity:	
None of the	ingredients is listed.	
· Cancerogen	ity categories	
	onmental Protection Agency)	
	liphenylmethanediisocyanate, isomeres and homologues	CBD
101-68-8	1,4'-methylenediphenyl diisocyanate	D, CBD
· TLV (Thres	hold Limit Value established by ACGIH)	
None of the	ingredients is listed.	
		(Contd. on page 9)
		US

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NIOSH Ca (N	(Contd. of page ational Institute for Occupational Safety and Health)
	redients is listed.
	reacters is used. nents The product is classified and labeled according to the Globally Harmonized System (GHS)
Hazard pictogr	
	ums
$\langle 1 \rangle \langle 2 \rangle$	
GHS07 GH	S08
Signal word D	inger.
	ining components of labeling: nediisocyanate,isomeres and homologues
	liphenyl diisocyanate
POLYOL	upnenyi ausocyanale
	enyl diisocyanate
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H315 Causes s	
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	se an allergic skin reaction.
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	se damage to organs through prolonged or repeated exposure.
Precautionary	
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P280	Wear eye protection / face protection.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
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P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if press
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P314	Get medical advice/attention if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
	(Contd. on page



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P501	Dispose of contents/container in accordance with local/regional/national/internatio regulations.
Chemical safe	ety assessment: A Chemical Safety Assessment has not been carried out.
Other infor	mation
	tion is based on our present knowledge. However, this shall not constitute a guarantee for a act features and shall not establish a legally valid contractual relationship.
Department is	ssuing SDS: Environment protection department.
	e Gaver (sgaver@semproducts.com)
	ration / last revision 05/31/2016 / 4
	and acronyms:
	nal Civil Aviation Organisation
	international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning nsport of Dangerous Goods by Rail)
	ropéen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internativ
	erous Goods by Road)
	nal Maritime Code for Dangerous Goods
DOT: US Depart	ment of Transportation
IATA: Internation	al Air Transport Association
	n Conference of Governmental Industrial Hygienists
	an Inventory of Existing Commercial Chemical Substances
	an List of Notified Chemical Substances
	bstracts Service (division of the American Chemical Society) Fire Protection Association (USA)
	s Materials Identification System (USA)
	centration, 50 percent
LD50: Lethal dos	
	Bioaccumulative and Toxic
	stent and very Bioaccumulative
	Institute for Occupational Safety
	onal Safety & Health
TLV: Threshold I	
PEL: Permissible	
	led Exposure Limit 1te toxicity – Category 4
	corrosion/irritation – Category 2
	ious eye damage/eye irritation – Category 2A
•	spiratory sensitisation – Category 1
	sensitisation – Category 1
Carc. 2: Carcino	genicity – Category 2
	ific target organ toxicity (single exposure) – Category 3
	ific target organ toxicity (repeated exposure) – Category 2
* Data anna	red to the previous version altered.