Printing date 06/02/2016

Reviewed on 06/16/2015

1 Identification

- · Product identifer
- · Trade name: <u>VITRITURF BINDER</u>
- · Article number: SL1076HR
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Hanover Specialties, Inc.
- *35 FELDLAND ST BOHEMIA, NY 11716 Phone : (631) 231-1301*

• Information department: Product safety department • Emergency telephone number: EMERGENCY PHONE NUMBERS: USA and Canada: 1-800 424-9300 International: 1-703 527-3887

2 Hazard(s) identification

Classification of the substance or mixtureAcute Tox. 4H332Harmful if inhaled.Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2AH319Causes serious eye irritation.Resp. Sens. 1H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.Skin Sens. 1H317May cause an allergic skin reaction.Carc. 2H351Suspected of causing cancer.STOT SE 3H335May cause damage to organs through prolonged or repeated exposure.

· 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:
 4,4'-methylenediphenyl diisocyanate
 o-(p-isocyanatobenzyl)phenyl isocyanate
 diphenylmethanediisocyanate,isomeres and homologues
 4-methyl-m-phenylene diisocyanate
 Hazard statements
 H332 Harmful if inhaled.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- · Precautionary statements
- Keep out of reach from children.

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	(Contd. of page 1)
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.
P305+P351+P33	8 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	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.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)

HEALTH *3	Ì	Health = *3
FIRE 1	Ì	Fire = 1
REACTIVITY 0	1	Reactivity $= 0$

· Other hazards

· Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
101-68-8	4,4'-methylenediphenyl diisocyanate	10-30%%
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate	5-10%%
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	1-5%%
584-84-9	4-methyl-m-phenylene diisocyanate	1-5%%
91-08-7	2-methyl-m-phenylene diisocyanate	0.1-1%%
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26447-40-5 methylenediphenyl diisocyanate

(Contd. of page 2) 0.1-1%%

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.
- \cdot 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.
- · After swallowing: If symptoms pe
- 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: Use fire fighting measures that suit the environment.
- \cdot Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced. • Advice for firefighters

- · Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

· 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.

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- · 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 constituents are the only constituents of the product which have 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 ³ , 0.02 ppm	
REL	Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit value: 0.2* mg/m³, 0.02* ppm *10-min	
TLV	Long-term value: 0.051 mg/m³, 0.005 ppm	
584-84-9 4-methyl-m-phenylene diisocyanate		
PEL	Ceiling limit value: 0.14 mg/m ³ , 0.02 ppm	
REL	See Pocket Guide App. A	
TLV	Short-term value: 0.035* mg/m³, 0.005* ppm Long-term value: 0.007* mg/m³, 0.001* ppm *inh.fraction+vapour; Skin;DSEN,RSEN; BEI	
91-08-7 2-methyl-m-phenylene diisocyanate		
TLV	Short-term value: 0.035* mg/m³, 0.005* ppm Long-term value: 0.007* mg/m³, 0.001* ppm *inh.fraction+vapour;Skin;DSEN,RSEN;BEI	
4 1 1	tional information. The lists that were valid during the greation were used as basis	

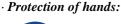
• Additional information: The lists that were valid during the creation were used as basis.

- · 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. Breathing equipment:

• Breathing equipment:

During mixing, handling and application: Splash goggles. Full protective clothing. Gloves (impervious). Wear suitable respiratory equipment. When air concentrations are not known (or above the TLV), an air-supplied respirator is required. Refer to OSHA Respiratory Protection Standard (29 CFR 1910.134).In presence of air movement, air-purifying (cartridge type) respirators are not the best protection but can be used, if you replaced them frequently. Change cartridges after 8h max or less due to their low warning properties. When in a confined space wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.





Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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(Contd. of page 4) 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

· 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 through 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

General Information		
Appearance: Form:	Fluid	
Form: Color:	Fiuta Clear	
Odor:	Odorless	
• Ouor: • Odor threshold:	Not determined.	
pH-value:	Not determined.	
•	Noi determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	>300 °C (>572 °F)	
Flash point:	177 °C (351 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	520 °C (968 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	0.4 Vol %	
Upper:	0.0 Vol %	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1.06 g/cm ³ (8.846 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	er): Not determined.	
		(Contd. on page

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- · Viscosity:
 - Dynamic:
 - Kinematic:
- Other information

Not determined. Not determined. 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.
- \cdot Conditions to avoid No further relevant information available.
- $\cdot \textit{Incompatible materials: } No \ further \ relevant \ information \ available.$
- · 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) 584-84-9 4-methyl-m-phenylene diisocyanate

Oral LD50 5800 mg/kg (rat)

• 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.

 \cdot Additional toxicological information:

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

Harmful Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
101-68-8 4,4'-methylenediphenyl diisocyanate	3	
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	3	
· NTP (National Toxicology Program)		
584-84-9 4-methyl-m-phenylene diisocyanate	R	
91-08-7 2-methyl-m-phenylene diisocyanate	R	
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

12 Ecological information

· Toxicity

• Aquatic toxicity: No further relevant information available.

· Persistence and degradability No further relevant information available.

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- · Behavior in environmental systems:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- \cdot **Mobility in soil** No further relevant information available.
- \cdot Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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.

14 Transport information

Void
Void
Void
Void
Not applicable.
Not applicable.
of Not applicable.
Void

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara
- Section 355 (extremely hazardous substances):
 - 584-84-9 4-methyl-m-phenylene diisocyanate

91-08-7 2-methyl-m-phenylene diisocyanate

· Section 313 (Specific toxic chemical listings):

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

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

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Safety Data Sheet acc. to OSHA HCS

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584-84-9 4		(Contd. of pag
	methyl-m-phenylene diisocyanate	
91-08-7 2-	methyl-m-phenylene diisocyanate	
TSCA (Toxic	Substances Control Act):	
All ingredien	rs are listed.	
Proposition 6	5	
Chemicals kr	nown to cause cancer:	
None of the in	ngredients is listed.	
Chemicals kr	nown to cause reproductive toxicity for females:	
	agredients is listed.	
•	nown to cause reproductive toxicity for males:	
	agredients is listed.	
	nown to cause developmental toxicity:	
None of the in	ngredients is listed.	
Carcinogenic	categories	
EPA (Enviro	nmental Protection Agency)	
	4'-methylenediphenyl diisocyanate	D, CB
	phenylmethanediisocyanate, isomeres and homologues	CBD
	old Limit Value established by ACGIH)	
	henylene diisocyanate	(A
• •	henylene diisocyanate	(A
	· · ·	(21
	National Institute for Occupational Safety and Health)	
	nethyl-m-phenylene diisocyanate	
GHS label el The product i	s classified and labeled according to the Globally Harmonized System (GHS	5).
GHS label el The product i	e ments s classified and labeled according to the Globally Harmonized System (GHS	5).
GHS label el The product i Hazard picto GHS07 G	ements s classified and labeled according to the Globally Harmonized System (GHS grams WWW HS08	5).
GHS label el The product i Hazard picto GHS07 G Signal word	ements s classified and labeled according to the Globally Harmonized System (GHS grams HS08 Danger	5).
GHS label el The product i Hazard picto GHS07 G Signal word L Hazard-deter	ements s classified and labeled according to the Globally Harmonized System (GHS grams W HS08 Danger mining components of labeling:	5).
GHS label el The product i Hazard picto GHS07 G Signal word Hazard-deter 4,4'-methylen	ements s classified and labeled according to the Globally Harmonized System (GHS grams W W HS08 Danger mining components of labeling: ediphenyl diisocyanate	5).
GHS label el The product i Hazard picto GHS07 G Signal word Hazard-deter 4,4'-methylen o-(p-isocyand	ements s classified and labeled according to the Globally Harmonized System (GHS grams W W HS08 Danger mining components of labeling: ediphenyl diisocyanate tobenzyl)phenyl isocyanate	5).
GHS label el The product i Hazard picto GHS07 G Signal word Hazard-deter 4,4'-methylen o-(p-isocyand diphenylmeth 4-methyl-m-p	ements s classified and labeled according to the Globally Harmonized System (GHS grams W W HS08 Danger mining components of labeling: ediphenyl diisocyanate tobenzyl)phenyl isocyanate anediisocyanate,isomeres and homologues henylene diisocyanate	5).
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GHS label el The product i Hazard picto GHS07 G Signal word Hazard-deter 4,4'-methylen o-(p-isocyand diphenylmeth 4-methyl-m-p Hazard stater H332 Harmfi	ements s classified and labeled according to the Globally Harmonized System (GHS grams WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	5).
GHS label el The product i Hazard picto GHS07 G Signal word Hazard-deter 4,4'-methylen o-(p-isocyand diphenylmeth 4-methyl-m-p Hazard stater H322 Harmfi H315 Causes	ements s classified and labeled according to the Globally Harmonized System (GHS grams WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	5).
GHS label el The product i Hazard picto GHS07 G Signal word I Hazard-deter 4,4'-methylen o-(p-isocyand diphenylmeth 4-methyl-m-p Hazard stater H332 Harmft H315 Causes H319 Causes	ements s classified and labeled according to the Globally Harmonized System (GHS grams WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	5).
GHS label el The product i Hazard picto GHS07 G Signal word A Hazard-deter 4,4'-methylem o-(p-isocyand diphenylmeth 4-methyl-m-p Hazard stater H332 Harmfu H315 Causes H319 Causes H334 May ca H317 May ca	ements s classified and labeled according to the Globally Harmonized System (GHS grams WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	5).
GHS label el The product i Hazard picto Hazard picto GHS07 G Signal word A Hazard-deter 4,4'-methylem o-(p-isocyand diphenylmeth 4-methyl-m-p Hazard stater H332 Harmft H315 Causes H319 Causes H334 May ca H317 May ca H351 Suspec	ements s classified and labeled according to the Globally Harmonized System (GHS grams	5).
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GHS label el The product i Hazard picto GHS07 G Signal word Hazard-deter 4,4'-methylen o-(p-isocyand diphenylmeth 4-methyl-m-p Hazard stater H332 Harmfi H315 Causes H319 Causes H319 Causes H317 May ca H351 Suspec H335 May ca H373 May ca	ments s classified and labeled according to the Globally Harmonized System (GHS grams WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	5).
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GHS label el The product i Hazard picto GHS07 G Signal word A Hazard-deter 4,4'-methylen o-(p-isocyand diphenylmeth 4-methyl-m-p Hazard stater H332 Harmft H315 Causes H319 Causes H319 Causes H317 May ca H351 Suspec H335 May ca H373 May ca H373 May ca Precautionar P260 P284	ments s classified and labeled according to the Globally Harmonized System (GHS grams WWW HS08 Danger mining components of labeling: ediphenyl diisocyanate tobenzyl)phenyl isocyanate anediisocyanate, isomeres and homologues henylene diisocyanate anediisocyanate, isomeres and homologues henylene diisocyanate nents If if inhaled. skin irritation. serious eye irritation. use allergy or asthma symptoms or breathing difficulties if inhaled. use an allergic skin reaction. ted of causing cancer. use respiratory irritation. use damage to organs through prolonged or repeated exposure. y statements	5).
GHS label el The product i Hazard picto GHS07 G Signal word A Hazard-deter 4,4'-methylen o-(p-isocyand diphenylmeth 4-methyl-m-p Hazard stater H332 Harmfi H315 Causes H319 Causes H319 Causes H317 May ca H351 Suspec H335 May ca H373 May ca	ments s classified and labeled according to the Globally Harmonized System (GHS grams WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	S). (Contd. on pag

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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.
P305+P351+P338	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	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.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product safety department
- · Contact: HS REG.DEPART.REG.SS
- · Date of preparation / last revision 06/02/2016 / -

[·] Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Carc. 2: Carcinogenicity - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2