# **X HEXION**<sup>\*</sup> SAFETY DATA SHEET

### FOR INDUSTRIAL USE ONLY

### Wonderbond(TM) WB-1010

### Section 1. Product and company identification

GHS product identifier MSDS Number Product type	<ul> <li>Wonderbond(TM) WB-1010</li> <li>000000100998</li> <li>Crosslinking Copolymer</li> </ul>
Recommended use and restrictions	
Material uses	: Adhesive.
Manufacturer/Supplier/Impor : ter	Hexion Inc. 180 East Broad Street Columbus, Ohio 43215 USA
Contact person :	4information@hexion.com
Telephone :	For additional health and safety or regulatory information, call 1 888 443 9466.
Emergency telephone number :	For Emergency Medical Assistance Call Health & Safety Information Services 1-866-303-6949
	For Emergency Transportation Information CHEMTREC US Domestic (800) 424-9300 CHEMTREC International (703) 527-3887 CANUTEC CA Domestic (613) 996-6666

## Section 2. Hazards identification

Classification of the substance or mixture (WHMIS 2015)

**GHS label elements** 

Hazard pictograms

Signal word Hazard statements SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2



### **Precautionary statements**

:

General	:	Not applicable.	
Prevention	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid breathing vapor. Contaminated work clothing should not be allowed out of the workplace.	
Response	:	IF exposed or concerned: Get medical attention. <b>IF ON SKIN:</b> Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention.	
Storage	:	Store locked up.	
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Other hazards which do not result in classification	:	None known.	

### Section 3. Composition/information on ingredients

:

Substance/mixture

Mixture

Ingredient name	% by weight	CAS
		number
Vinyl Acetate	0.1 - 0.3	108-05-4

Note: Residual formaldehyde gas may be released from this product during processing. The amount and level will depend on local conditions of use. Formaldehyde gas is irritating to the eyes and upper respiratory tract and may aggravate existing respiratory conditions or allergies. OSHA has listed formaldehyde as a potential human carcinogen. See the OSHA formaldehyde standard 29 CFR 1910.1048 for further details. The International Agency for Research on Cancer (IARC) has classified formaldehyde as carcinogenic to humans.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

Description of necessary first aid measures

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

:

		Continue to rinse for at least 10 minutes. Get medical attention.	
Inhalation	:		
Skin contact	:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	

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

Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments Protection of first aid personnel	:	No specific treatment. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

<u>Most important symptoms and effects, both acute and delayed</u> See toxicological information (Section 11)

# **Section 5. Fire-fighting measures**

### Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire. None known.
Specific hazards arising from the chemical Hazardous thermal decomposition products	:	In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide carbon monoxide

nitrogen oxides

Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and material for containment	and	cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13 of SDS). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

Protective measures:Put on appropriate personal protective equipment (see section 8 of<br/>SDS). Persons with a history of skin sensitization problems should not<br/>be employed in any process in which this product is used. Avoid<br/>exposure - obtain special instructions before use. Do not handle until

	all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

### Control parameters

### **Occupational exposure limits**

Ingredient name	Exposure limits	
Vinyl Acetate	ACGIH TLV (1994-09-01) TWA 35 mg/m3 10 ppm STEL 53 mg/m3 15 ppm	
Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	
Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
	-	

### Individual protection measures

Hygiene measures Eye/face protection	<ul> <li>Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.</li> <li>Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.</li> </ul>
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	<ul> <li>Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.</li> </ul>

# Section 9. Physical and chemical properties

### **Appearance**

Physical state Color	:	Liquid Opaque, white to off-white
Odor Odor threshold	:	Not available Not available
рН	:	4.1 - 4.7 @ 25 °C (77 °F)
Melting point/ Freezing point	:	0 °C (32 °F)
Boiling point	:	102 °C (216 °F)
Flash point	:	Not determined

Burning time Burning rate Evaporation rate	::	Not available Not available 0.4 ((n-Butyl acetate=1))
Flammability (solid, gas) Lower and upper explosive (flammable) limits	:	Not available <b>Lower:</b> Not available <b>Upper:</b> Not available
Vapor pressure	:	50 mm Hg @ 25 °C (77 °F)
Vapor density	:	Not available
Relative density	:	1.1
Solubility Solubility in water	:	Not available Not available
Partition coefficient: n- octanol/water	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature SADT Viscosity	::	Not available Not available <b>Dynamic:</b> 1,500 - 1,800 cPs (Brookfield)
		Kinematic: Not available

#### Other information

No additional information.

# Section 10. Stability and reactivity

Reactivity	:	Stable under normal conditions.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	No specific data.
Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials acids
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

### **Information on toxicological effects**

### Acute toxicity

Version: 5.0

Product/ingredient name	Result	Species	Dose	Exposure
Vinyl Acetate				
	LD50 Oral	Rat	2,900 mg/kg	-
	LC50 Inhalation	Rat	11 mg/l	4 h
	LD50 Dermal	Rabbit	2,335 mg/kg	-
<b>Conclusion/Summary</b>	: Not	available		
Irritation/Corrosion				
Conclusion/Summary				
Skin	: Not	available		
eyes		available		
Respiratory	: Not	available		
<u>Sensitization</u>				
Conclusion/Summary				
Skin	: Not	available		
Respiratory	: Not	available		
<u>Mutagenicity</u>				
Conclusion/Summary	: Not	available		
<u>Carcinogenicity</u>				
Conclusion/Summary	: Not	available		
<b>Reproductive toxicity</b>				
Conclusion/Summary	: Not	available		
<u>Teratogenicity</u>				
Conclusion/Summary	: Not	available		

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs				
Vinyl Acetate	Category 3		Respiratory tract irritation				
			Narcotic effects				

#### Specific target organ toxicity (repeated exposure)

specific unger organ toxicity (repeated exposure)								
Product/ingredient name	Category	Route of exposure	Target organs					
Vinyl Acetate	Category 1		central nervous system (CNS) skin					

### Aspiration hazard

Not available

# Information on likely routes of

: Not available

exposure

### Potential acute health effects

Eye contact Inhalation	:	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	:	May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the physical, che	mic	al and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following:
		irritation
<b>T</b>		redness
Ingestion	:	No specific data.
Delayed and immediate effects as well	as	chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	:	Not available
Potential delayed effects	:	Not available
Long term exposure		
Potential immediate effects	:	Not available
Potential delayed effects	-	Not available
Potential chronic health effects		
1 otentiar em ome neatin enects		
Conclusion/Summary	:	Not available
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	Subsequently exposed to very low levels. Suspected of causing cancer. Risk of cancer depends on duration and
Caremogeneity	•	level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Numerical measures of toxicity		

### Acute toxicity estimates

Not available

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
vinyl acetate			
	Acute LC50 14,000 µg/l Fresh water	Fish - Fathead minnow	96 h

Conclusion/Summary	:	Not available
Persistence/degradability		
Conclusion/Summary	:	Not available

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Vinyl Acetate	0.73	3.16	low

#### **Mobility in soil**

Soil/water partition coefficient	:	Not available
(KOC) Other adverse effects	:	No known significant effects or critical hazards.

# Section 13. Disposal considerations

Disposal methods	:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions 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 non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains
		of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

International transport regulations								
Regulatory	UN/NA	Proper shipping name	Classes/*PG	Reportable				
information	number			Quantity (RQ)				
CFR		Non-regulated						
TDG		Non-regulated						
IMO/IMDG		Non-regulated						

IATA (Cargo)	Non-regulated
*PG : Packing group	
Special precautions for user	: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

<u>Canada</u>	
Canadian NPRI	: The following components are listed: Ethanol, 2-(2-ethoxyethoxy)-, 1-acetate
CEPA Toxic substances	: None required.
Canada inventory	: All components are listed or exempted.
International regulations	
International lists	<ul> <li>Australia inventory (AICS): All components are listed or exempted.</li> <li>Canada inventory: All components are listed or exempted.</li> <li>Japan inventory: Not determined.</li> <li>China inventory (IECSC): All components are listed or exempted.</li> <li>Korea inventory: Not determined.</li> <li>New Zealand Inventory (NZIoC): Not determined.</li> <li>Philippines inventory (PICCS): All components are listed or exempted.</li> <li>United States inventory (TSCA 8b): All components are listed or exempted.</li> <li>Taiwan inventory (CSNN): Not determined.</li> </ul>

### Section 16. Other information

Hazardous Material Information System III (U.S.A.) :

Health	*	1
Flammability		1
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

Full text of abbreviated H : statements

Not applicable.

Date of printing Date of issue/Date of revision Date of previous issue Version Prepared by Key to abbreviations	: : : : : : : : : : : : : : : : : : : :	06/06/2017 05/16/2017 11/05/2014 5.0 Product Safety Stewardship ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations
References	:	Not available

#### Notice to reader

The information provided herein was believed by Hexion Inc. ("Hexion") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Hexion are subject to Hexion's terms and conditions of sale. HEXION MAKES NO WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY HEXION, except that the product shall conform to Hexion's specifications. Nothing contained herein constitutes an offer for the sale of any product.

® and (TM) Licensed trademarks of Hexion Inc.