

Safety Data Sheet

Material Name: HydroBond PVC Bonding Adhesive

SDS 10-2520

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name: HydroBond PVC Bonding Adhesive

Synonyms: Water Based Bonding Adhesive

Chemical Family: Adhesive

Product Use: Bonding Adhesive for PVC Single-Ply Roofing Membrane

Restrictions on Use: For industrial use only.

Manufacturer Information

Carlisle SynTec
1285 Ritner Highway
Carlisle, PA 17013 USA
Phone: +1-800-479-6832
Emergency Phone #: +1-800-424-9300 (Chemtrec)

Supplier Information:

Mule-Hide Products Co., Inc
1195 Prince Hall Dr.
Beloit, WI 53511
USA
Phone: 800-786-1492

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Liquids - Category 3

Skin Sensitization - Category 1

Reproductive Toxicity - Category 1B

Specific Target Organ Systemic Toxicity - Single Exposure - Category 1

Specific Target Organ Systemic Toxicity - Repeated Exposure - Category 2 (Inhalation)

GHS Label Elements

Symbol(s)



Signal Word

Danger

Hazard Statement(s)

H226 Highly flammable liquid and vapor

H317 May cause allergic skin reaction

H360 May damage fertility or the unborn child

H370 Causes damage to organs

H373 May cause damage to organs through prolonged or repeated exposure if inhaled



Safety Data Sheet

Material Name: HydroBond PVC Bonding Adhesive

SDS 10-2520

Precautionary Statement(s)

Prevention

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P233 Keep container tightly closed
- P240 Ground/Bond container and receiving equipment
- P241 Use explosion-proof electrical/ventilating/lighting equipment
- P242 Use non-sparking tools
- P243 Take precautionary measures against static discharge
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P264 Wash skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P281 Use Personal Protective equipment as required

Response

- P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P307 + P311 If exposed: Call a POISON CENTER or doctor/physician
- P333 + P313 If skin irritation or rash occurs, get medical advice/attention
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage

- P403 + P235 Store in a well-ventilated place. Keep cool
- P405 Store locked up

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant

Warning :

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
108-88-3	Toluene	>=5-<10
67-56-1	Methanol	>=2-<5
84-74-2	Dibutylphthalate	>=0-<1



Safety Data Sheet

Material Name: HydroBond PVC Bonding Adhesive

SDS 10-2520

2634-33-5

1,2-benzisothiazol-3(2H)-one

$\geq 0 < 1$

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.

Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

Remove/take off immediately all contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.

Eyes

IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention. .

Most Important Symptoms/Effects

Acute/ Delayed

Allergic reactions See Section 11 for more detailed information on health effects and symptoms sensitizing effects toxic effects for reproduction.

Protection of first-aiders : Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

Note to Physicians

If adverse effects occur, treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Alcohol-resistant foam, carbon dioxide (CO₂), dry chemical

Unsuitable Extinguishing Media

Water. Do not scatter spilled material with high-pressure water streams.

Special Extinguishing Methods



Safety Data Sheet

Material Name: HydroBond PVC Bonding Adhesive

SDS 10-2520

Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations..

Special Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, Eliminate all sources of ignition. Deny access to unprotected persons. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and Materials for Containment and Cleaning Up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Environmental Precautions

Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe vapors or spray mist. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Pregnant women or women of child bearing age should not be exposed to this product. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Follow standard hygiene measures when handling chemical products.

Conditions for Safe Storage, Including any Incompatibilities

Store in original container. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.

Materials to Avoid:

No data available

Safety Data Sheet

Material Name: HydroBond PVC Bonding Adhesive

SDS 10-2520

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	CAS #	Basis/ Value/Exposure Limits	
Toluene	108-88-3		
	ACGIH	20 ppm TWA	
	OSHA Z-2	200 ppm TWA	300 ppm CEIL
		500 ppm Peak	
	OSHA PO	100 ppm; 375 mg/m ³ TWA	150 ppm; 560mg/m ³ STEL
Methanol	67-56-1		
	ACGIH	200 ppm TWA	250 ppm STEL
	OSHA Z-1	200 ppm;260 mg/m ³ TWA	
	OSHA PO	200 ppm;260 mg/m ³ TWA	250 ppm;325 mg/m ³ STEL
Talc	14807-96-6		
	ACGIH	0.1 fibre/cm ³ TWA	2 mg/m ³ respirable fraction TWZ
	OSHA PO	2 mg/m ³ Respirable fraction TWA	
	OSHA Z-3	20 Million particles per cubic foot Dust	

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

****Basis**

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust



Safety Data Sheet

Material Name: HydroBond PVC Bonding Adhesive

SDS 10-2520

Engineering Controls

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Respiratory Protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Glove Recommendations

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.

Hygiene Measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid	Physical State	liquid
Odor	Solvent	Color	Off-white
Odor Threshold	No data available	pH	Not applicable
Freezing point	No data available	Evaporation Rate	No data available
Boiling Point Range	No data available	Flammability (solid, gas)	No data available
Autoignition	No data available	Flash Point	Ca 104 °F (40°C)
Lower Explosive Limit	No data available	Decomposition	No data available



Safety Data Sheet

Material Name: HydroBond PVC Bonding Adhesive

SDS 10-2520

Upper Explosive Limit	No data available	Vapor Pressure	No data available
Vapor Density (air=1)	No data available	Specific Gravity (water=1)	No data available
Water Solubility	Soluble	Partition coefficient:n- octanol/water	No data available
Viscosity (kinematic)	ca.> 20.5 mm ² /s at 104 °F (40 °C)	Solubility (Other)	Not available
Density	ca.1.08 g/cm ³ at 73 °F (23 °C)	Volatile Organic Compounds(VOC) content	240 g/l

Other Information

No information available for the product.

Section 10 - STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Stable under recommended storage conditions. Vapors may form explosive mixture with air.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition.

Incompatible Materials

No data available

Section 11 - TOXICOLOGICAL INFORMATION

Acute oral toxicity :

No data available

Acute inhalation toxicity :

No data available

Acute dermal toxicity :

No data available

Ingredients:

Methanol (67-56-1)

Acute Oral Toxicity estimate:100 mg/kg Method: Converted acute toxicity point estimate



Safety Data Sheet

Material Name: HydroBond PVC Bonding Adhesive

SDS 10-2520

Acute Dermal Toxicity estimate: 300 mg/kg Method: Converted acute toxicity point estimate
Acute Inhalation Toxicity estimate: Acute toxicity estimate : 3 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Converted acute toxicity point estimate

Serious Eye Damage

No data available

Irritation/Corrosivity Data

No data available

Respiratory or Skin Sensitization

May cause an allergic skin reaction..

Component Carcinogenicity

No data available

Germ Cell Mutagenicity

No data available

Carcinogenicity

No data available

Reproductive Toxicity/Fertility

May damage fertility or the unborn child.

Reproductive Toxicity/Developmental/Teratogenicity:

No data available

Specific Target Organ Toxicity - Single Exposure

Assesment: Causes damage to organs

Specific Target Organ Toxicity - Repeated Exposure

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

Assessment: May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration hazard

No data available

Medical Conditions Aggravated by Exposure

No data available.

Section 12 - ECOLOGICAL INFORMATION

Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Component Analysis -

Safety Data Sheet

Material Name: HydroBond PVC Bonding Adhesive

SDS 10-2520

1,2-benzisothiazol-3(2H)-one	2634-33-5
Toxicity to daphnia and other aquatic invertebrates:	EC50 Species: Daphnia Dose: 3 mg/l Exposure time: 48 h

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues

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.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

UN/NA #: UN1993

Description of the goods:

Flammable liquids,
n.o.s.(Toluene)

Hazard Class: 3

Packing Group: III

Required Label(s): 3

Emergency Response: 128

Guidebook Number

IMDG

UN/NA #: UN1993

Description of the goods:

Flammable liquids,
n.o.s.(Toluene)

Hazard Class: 3

Packing Group: III

Required Label(s): 3

EmS # 1: F-E

EmS # 2: S-E

IATA:

UN/NA #: UN1993

Description of the goods:

Flammable liquids,
n.o.s.(Toluene)

Hazard Class: 3

Packing Group: III

Required Label(s): 3

Packing instruction: 366

(cargo aircraft)

Packing instruction:309,Y309

(passenger aircraft)

Marine pollutant: no

DOT:

As per 49CFR 173.150 (f) Combustible Liquid Exception, Material is Not Regulated.

IATA:

For Limited Quantity provisions reference IATA DGR Section 2.7 and other applicable sections.

IMDG:

For Limited Quantity special provisions reference IMDG Code Chapter 3.4

Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable



Safety Data Sheet

Material Name: HydroBond PVC Bonding Adhesive

SDS 10-2520

Section 15 - REGULATORY INFORMATION

TSCA list

All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

Fire Hazard

Chronic Health Hazard

Acute Health Hazard

This material contains one or more of the following chemicals required to be identified under SARA Section 313 (40 CFR 372.65),

Toluene	108-88-3
SARA 313:	8 %
Methanol	67-56-1
SARA 313:	2 %

SARA Section 311/312 (40 CFR 370 Subparts B and C)

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known in the State of California to cause cancer.

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Ozone-Depletion Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).



Safety Data Sheet

Material Name: HydroBond PVC Bonding Adhesive

SDS 10-2520

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Toluene	108-88-3
	8 %
Methanol	67-56-1
	2 %

Section 16 - OTHER INFORMATION

HMIS Ratings

Health: 3 Flammability: 2 Physical Hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

Revision Date: June 1, 2018

Revision Note: General Update

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information



Safety Data Sheet

Material Name: HydroBond PVC Bonding Adhesive

SDS 10-2520

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.

Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.