



SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s): Bond365™ Adhesive Part A
Product Code(s): CH-C-22A
Uses: Elastomeric material for use in an adhesive.
Company: Comfort Hoof Care, Inc.
Address: 420 Commerce Avenue; Baraboo, WI 53913; USA
Telephone Number: (608) 356-3834 Fax Number: (608) 356-6112
Emergency Telephone Number: Not available.
Date Issued: July 10, 2018 Date Revised: August 9, 2019

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May 2012 (GHS). It may not meet requirements in other countries.

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification: **DANGER**
Acute Toxicity – Inhalation (Category 4)
Skin Sensitization (Category 1)
Respiratory Sensitization (Category 1)
Single Exposure (Category 3)



GHS Hazard Statements: Harmful if inhaled
May cause an allergic skin reaction
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause respiratory irritation

GHS Precautionary Statements: Prevention:
Avoid breathing mist/vapors/spray.
Wear protective gloves.
Use only outdoors or in a well-ventilated area.
[In case of inadequate ventilation] Wear respiratory protection.
Contaminated work clothing must not be allowed out of the workplace.

Response:
Call a poison center/doctor/hospital if you feel unwell.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If on skin: Wash with plenty of water/soap.
Wash contaminated clothing before reuse.

Storage:
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal:
Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 2 HAZARDS IDENTIFICATION

Hazards Not
Otherwise
Classified: None.

GHS
Assessment: Approximately 0% of this mixture consists of ingredient(s) of unknown acute toxicity.
Approximately 0% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

SECTION 3 COMPOSITION / INGREDIENTS

Component	CAS Number	EC Number	Concentration
Urethane polymer	Proprietary	---	95.0 - 99.9%
Hexamethylene diisocyanate	822-06-0	212-485-8	0.1 - 1.0%

Other components are either non-hazardous or do not significantly contribute to the hazards of the product.
Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

First Aid - Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention, if irritation develops.

First Aid - Skin: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately if irritation develops and/or persists. Wash contaminated clothing before reuse.

First Aid - Ingestion: If swallowed and feel unwell, call a physician or poison control center. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

First Aid - Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Important Symptoms /
Effects – Acute and
Delayed: Tissue inflammation, rash, difficult breathing.

Advice to Physician: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Treat surrounding material. Water spray, dry chemical, carbon dioxide, or foam is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Specific Hazards: This product is not flammable. This product may give rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive and/or toxic.

Protective equipment and
procedures for fire-fighters. Wear full protective clothing and self-contained breathing apparatus.

Additional Advice: None.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill Procedures:	Small spills: Wipe up spills with an absorbent towel/material and transfer into suitable containers for recovery or disposal. Finally flush area with water. Large spills: Contain spilled material if possible. Pump into suitable and properly labeled containers.
Personal Precautions:	Wear suitable protective clothing and equipment.
Environmental Precautions:	Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

SECTION 7 HANDLING AND STORAGE

Handling:	Wear appropriate personal protection (See Section 8) when handling this material. The work area must be equipped with a safety shower and eye wash station. If exposed to the liquid, avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing vapors, mists or sprays. Use in a well-ventilated area.
Storage:	Keep container(s) tightly closed. Use and store this material at temperatures below 25°C (77°F) away from moisture, heat, direct sunlight and hot metal surfaces. Keep from freezing. Keep away from any incompatible materials (see Section 10).
Additional Advice:	Store in original container. Store as directed by the manufacturer.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Standards:	Exposure limits are listed below, if they exist.
Urethane polymer:	None.
Hexamethylene diisocyanate:	ACGIH TLV: 0.005 ppm TWA. China: 0.03 mg/m3 TWA. China: 0.15 mg/m3 STEL. German MAK: 0.005 ppm TWA. German MAK: 0.005 ppm STEL. Japan JSOH: 0.005 ppm TWA. NIOSH REL: 0.005 ppm TWA. NIOSH REL: 0.2 ppm ceiling.
Engineering Control Measures:	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.
Respiratory Protection:	A NIOSH certified self-contained breathing apparatus or air purifying respirator with an organic cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits.
Hand Protection:	The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation and skin damage (see glove manufacturer literature for information on permeability).
Eye Protection:	Approved eye protection (safety glasses with side-shields or goggles) to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.
Body Protection:	Impervious clothing should be worn as needed to prevent skin contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Pale yellow
Odor:	Faint, nearly odorless
Odor Threshold:	0.001 ppm (Hexamethylene diisocyanate)
pH:	Not available.
Melting Point/Range (°C/°F):	Not available.
Boiling Point/Range (°C/°F):	Not available.
Flash Point (PMCC) (°C/°F):	227.2°C / 441.0°F
Evaporation Rate:	Not available.
Flammability / Explosivity Limits in Air (%):	Not available.
Vapor Pressure:	Negligible
Vapor Density (Air = 1):	Heavier than air.
Relative Density:	1.155 (23°C)
Solubility in Water:	Insoluble
Partition Coefficient:	Not available.
Autoignition Temperature (°C/°F):	ca. 460°C / 860°F
Decomposition Temperature (°C/°F):	Not available.
Viscosity:	Not available.
Explosive Properties:	None.
Oxidizing Properties:	None.
Volatile Organic Content (VOC) (g/l):	< 12 g/l (as defined by 40CFR51.100)

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	Product will not undergo additional reaction on its own.
Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Contact with incompatible materials, excessive heat.
Incompatibilities:	Strong oxidizers, strong acids, strong bases, alcohols, amines, copper alloys, moisture.
Hazardous Decomposition Products:	Oxides of carbon, oxides of nitrogen, hydrogen cyanide, isocyanates, isocyanic acid, aliphatic compounds, toxic by-products.

SECTION 11 TOXICOLOGICAL INFORMATION

If available, toxicity data for the product is given; otherwise component data is listed.

Acute Toxicity:	This product may be harmful, if inhaled. (Urethane polymer) Oral LD50 (rat) > 2500 mg/kg; Dermal LD50 (rat) > 2000 mg/kg; Inhalation LC50 (rat) 0.39 – 0.543 mg/l (4hr) (based on the weight of evidence, a modified classification is justified). (Hexamethylene diisocyanate) Oral LD50 (rat) 746 mg/kg; Dermal LD50 (rat) > 7000 mg/kg; Inhalation LC50 (rat) 124 mg/m3 (4 hr) (vapor)
Skin Corrosion / Irritation:	The product may be slightly irritating to the skin. (Urethane polymer) Slightly irritating to skin (rabbit).

SECTION 11 TOXICOLOGICAL INFORMATION

	(Hexamethylene diisocyanate) Corrosive to skin (rabbit).
Serious Eye Damage / Irritation:	The product may be slightly irritating to the eyes. (Urethane polymer) Slightly irritating to eye (rabbit). (Hexamethylene diisocyanate) Corrosive to eyes (rabbit).
Respiratory or Skin Sensitization:	The product may be dermally sensitizing. This product may be sensitizing to the respiratory system. (Urethane polymer) Sensitizing to skin (Mouse local lymphnode assay and guinea pig). No respiratory sensitization observed in animal testing. (Hexamethylene diisocyanate) Dermally sensitizing (guinea pig). Sensitizing to the respiratory system (guinea pig).
Mutagenicity:	This product is not expected to be mutagenic. (Urethane polymer) Not mutagenic (Ames test, chromosome aberration test and point mutation in mammalian cells). (Hexamethylene diisocyanate) Not mutagenic (Ames test, mammalian cell gene mutation assay and micronucleus assay).
Carcinogenicity:	This product is not expected to be carcinogenic. (Urethane polymer) No data. (Hexamethylene diisocyanate) No carcinogenic effect was detected in rats in a 2 year inhalation study at up to 0.164 ppm.
Reproductive / Developmental Toxicity:	This product is not expected to be reproductively or developmentally harmful. (Urethane polymer) No data. (Hexamethylene diisocyanate) In an inhalation study with pregnant rats, there were no significant effects on mating, fertility, gestation, offspring viability indices up to 0.3 ppm.
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Single Exposure:	(Urethane polymer) No data. (Hexamethylene diisocyanate) No data.
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Repeated Exposure:	(Urethane polymer) In a 90-day inhalation study with rats, no significant adverse effects were observed other than respiratory system irritation. (Hexamethylene diisocyanate) In a 2-year inhalation study in rats, epithelial degeneration was considered a significant effect (lungs and nasal passages).
Aspiration Hazard:	This product does not pose an appreciable aspiration hazard.
Additional Information:	None.

SECTION 12 ECOLOGICAL INFORMATION

If available, ecological data for the product is given; otherwise component data is listed.

Acute Ecotoxicity:	This product is not expected to be appreciably harmful to aquatic species. (Urethane polymer) LC50 (Zebra fish) > 100 mg/l/96 hr; EC50 (Daphnia magna) > 100 mg/l/48 hr. (Hexamethylene diisocyanate) LC0 (Zebrafish) > 82.8 mg/l/96 hr; EC0 (Daphnia magna) > 89.1 mg/l/48 hr; EC50 (algae) > 77.4 mg/l/72 hr.
Mobility:	(Urethane polymer) No data. (Hexamethylene diisocyanate) Not expected to leach or adsorb to solids and sediments.
Persistence/Degradability:	(Urethane polymer) Not readily biodegradable (0-2% in 28 days). (Hexamethylene diisocyanate) Expected to rapidly hydrolyze.
Bioaccumulation:	(Urethane polymer) A BCF of 3.2 indicates the potential for bioaccumulation is low.

SECTION 12 ECOLOGICAL INFORMATION

(Hexamethylene diisocyanate) Not expected to be bioaccumulative (Log Kow < 4.5).

Other adverse effects: None.

SECTION 13 DISPOSAL CONSIDERATION

Environmental precautions: Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Product Disposal: Dispose in accordance with all local, state (provincial), and federal regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Container Disposal: Do not remove label until container is thoroughly cleaned. Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe way.

SECTION 14 TRANSPORT INFORMATION

DOT (US):

Proper Shipping Name: Not regulated
 UN Number: None.
 Class: None.
 Packaging Group: None.
 Reportable Quantity: 100 pounds (Hexamethylene diisocyanate)
 Marine Pollutant: None.

IATA:

Proper Shipping Name: Not regulated
 UN Number: None.
 Class: None.
 Packing Group: None.

IMDG:

Proper Shipping Name: Not regulated
 UN Number: None.
 Class: None.
 Packing Group: None.
 Marine Pollutant: None.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

SECTION 15 REGULATORY INFORMATION

US Toxic Substance Control Act: All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SECTION 15 REGULATORY INFORMATION

Canadian Domestic Substance List:	All components of this product are listed on the Canadian Domestic Substance List.	
EU REACH:	All components of this product have been pre-listed, registered or are exempt under REACH.	
TSCA Sec.12(b) Export Notification:	This product does not contain a chemical at or above de minimis concentrations which requires reporting.	
Canadian WHMIS Classification:	D.2.A, D.2.B This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.	
Massachusetts Right-To-Know:	This product contains materials subject to disclosure under the Massachusetts Right-To-Know Law: - Hexamethylene diisocyanate	
New Jersey Right-To-Know:	This product contains materials subject to disclosure under the New Jersey Right-To-Know Law: - Hexamethylene diisocyanate (0995)	
Pennsylvania Right-To-Know:	This product does not contain materials subject to disclosure under the Pennsylvania Right-To-Know Law.	
California Proposition 65:	This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.	
SARA TITLE III-Section 311/312 Categorization (40 CFR 370):	Immediate (acute), delayed (chronic) hazard (as of 2018, the EPA has adopted GHS hazard classifications)	
SARA TITLE III-Section 313 (40 CFR 372):	This product contains materials which are listed in Section 313 at or above de minimis concentrations: - Hexamethylene diisocyanate (as Diisocyanates)	
CERCLA Hazardous Substance (40 CFR 302)	This product contains materials subject to reporting under CERCLA and Section 304 of EPCRA: - Hexamethylene diisocyanate (100 pounds)	
Water Hazard Class (WGK):	This product is slightly water-endangering (WGK=1).	
Other Chemical Inventories:	Australia (AICS):	All components of this product are listed.
	China (IECSC):	All components of this product are listed.
	Japan (ENCS):	All components of this product are listed.
	Korea (KCI):	All components of this product are listed.
	New Zealand (NZIoC):	All components of this product are listed.
	Philippines (PICCS):	All components of this product are listed.
	Taiwan (TCSI):	All components of this product are listed.

SECTION 16 OTHER INFORMATION

NFPA Rating - HEALTH:	2
NFPA Rating - FIRE:	1
NFPA Rating - REACTIVITY:	1
NFPA Rating - SPECIAL:	NONE
SDS Date Issued:	July 10, 2018

SECTION 16 OTHER INFORMATION

SDS Current Version:	1.1	Version Date:	August 9, 2019
SDS Revision History:	v1.0 Initial version. v1.1 Added trademark symbol to product name (Section 1).		
Abbreviations:	GHS: Globally Harmonized System of Classification and Labeling of Chemicals CAS#: Chemical Abstract Services Number ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration NFPA: National Fire Protection Association DOT: US Department of Transportation RCRA: US Resource Conservation and Recovery Act TLV: Threshold Limit Value TWA: Time-Weighted Average PEL: Permissible Exposure Limit STEL: Short Term Exposure Limit WEEL: Workplace Environmental Exposure Levels AIHA: American Industrial Hygiene Association NTP: National Toxicology Program IARC: International Agency for Research on Cancer LD50: Lethal Dose 50% LC50: Lethal Concentration 50% NOAEL: No Observed Adverse Effect Level NOEL: No Observed Effect Level EC50: Effective Concentration 50% LL50: Lethal Loading Rate 50% BCF: Bioconcentration Factor BOD: Biological Oxygen Demand Koc: Soil Organic Carbon Partition Coefficient. Tlm: Median Tolerance Limit		
Key References:	United States National Library of Medicine's TOXNET Patty's Toxicology, 5 th Edition European Commission's Institute for Health and Consumer Protection American Conference of Governmental Industrial Hygienists International Agency for Research on Cancer United States National Toxicology Program United States Occupational Safety and Health Administration United States Department of Transportation Supplier Material Safety Data Sheets		
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