SAFETY DATA SHEET: Bison Wood Cubes & Tops

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Section 1 – Product Information

Product Name	Bison Wood Cubes and Tops with Bullet Liner
Component Synonyms	CUBE-IPE
Chemical Family	Natural Organic Products with Natural Inorganic Articles (e.g. stainless-steel screws, bullet liner)

Section 2 – Hazard(s) Identification

Wood Cubes & Tops	
Hazard Identification	As sold, this product is not considered hazardous under Cal-OSHA 8CCR Section 5194 and OSHA 29 CFR Parts 1910.1200 Hazard Communication Standard, whole wood products are considered articles. However, individual customer processes, (such as sawing, drilling, and sanding) may result in the formation of dust (combustible or otherwise), and/ or particulates which may present the following hazards: **OSHA Hazards:** Carcinogen Skin Sensitizer Target Organ Effect **Target Organs:** Respiratory system **GHS Classification:** Carcinogenicity Ipê; A4—Not Classifiable as a Human Carcinogen)—Nasopharyngeal cancer and/or cancer of the nasal cavities and paranasal sinuses by inhalation of wood dusts. Skin Sensitization (Category 1)—May cause an allergic skin reaction. Respiratory Sensitization (Category 1)—May cause allergy or asthma symptoms or breathing difficulty if inhaled. Specific Target Organ Toxicity (STOT)-Repeated Exposure (Category 3)—May cause respiratory irritation Eye Irritation (Category 2B)—Causes eye irritation. Combustible Dust—If converted to aerosolized particulates during further processing, handling, or by other means, may for combustible dust concentrations in the surrounding air.  SIGNAL WORD: DANGER **Hazard Statement(s)** May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to lungs through prolonged or repeated inhalation exposure. Harmful if swallowed. May cause respiratory irritation. Causes eye irritation. **Precautionary Statement(s)** Do not handle until all safety precautions have been read and understood. Do not breathe dusts. Wear protective gloves/ protective clothing/ eye protection/ face protection.

	Contaminated work clothing must not be allowed out of the workplace. Use only outdoors or in well ventilated areas. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed, concerned or feel unwell: Get medical advice/ attention. If in eyes: Rinse cautiously with water/ eye wash solution for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin: Wash with plenty of water. If irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. **Hazard(s) Not Otherwise Classified (HNOC):** None Known **Unknown Acute Toxicity Statement (mixture):** None Known These products do not contain asbestos. Under normal condition these products do not release hazardous materials after installation and are not considered hazardous. Waste and residues should be disposed of in accordance with local authority requirements.

Bullet Liner

GHS Ratings	Oral Toxicity: Acute Tox. 4	Oral > 300+ <=2,000mg/kg
	Skin Corrosive: 2	Reversible adverse effects in the dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation.
	Eye corrosive: 1	Serious eye damage: Irreversible damage 21 days after exposure, Draize Score: Corneal opacity >= 3, Iritis > 1.5
	Skin sensitizer: 1	Skin Sensitizer
	Reproductive Toxin: 2	Human or animal evidence possibly with other information.
	Aquatic Toxicity: C2	Acute toxicity > 1.00 but <= 10.0 mg/l and lack of rapid degradability and log Kow >= 4 unless BDF < 500 and unless chronic toxicity > 1 mg/l
GHS Hazards	H302	Harmful if swallowed.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
	H361	Suspected of damaging fertility or the unborn child.
	H411	Toxic to aquatic life with long lasting effects.
GHS Precautions	P202	Do not handle until all safety precautions have been read and understood.
	P261	Avoid breathing dust due to cutting.
	P264 + P302 + P352	Wash hands thoroughly after handling.
	P270	Do not eat, drink, or smoke when using this product.
	P273	Avoid release into the environment.

GHS Precautions	P280	Wear protective gloves, clothing, eye/face protection.
	P281	Use personal protective equipment as required.
	P301 + P310 + P312	Immediately call a POISON CENTER is case of overexposure or if swallowed.
	P305 + P351 + P338	If in eyes: Rinse continuously with water for several minutes. Remove contact lenses if present and continue rinsing.
	P330	Rinse mouth after exposure if cut into dust.
	Other	Seek medical attention should other symptoms occur.

Section 3 – Composition/ Information on Ingredients

Product Component	Ingredient Name	CAS Number	Percentage by Wt.
Ipê Cube/Top	Ipê hardwood	--	>90.0
Cumaru Cube/Top	Cumaru hardwood	--	>90.0
Wood Cube Screw	Stainless Steel	65997-19-5	1-10
	Iron	7439-89-6	70 max.
	Chromium	7440-47-3	19 max.
	Nickel	7440-02-0	11 max.
AkzoNobel 9597 (Wood Adhesive System 9597)	Polyvinyl Acetate (PVA)	9003-20-7	<1.0
Bullet Liner	Wood Preserving Liner		1-10
	Propylene Glycol Diamine, 2-amino-, with Propylene	9046-10-0	30-40 max.
	Castor Oil	8001-79-4	20-30 max.
	Diethyltoluenediamine	68479-98-1	5-10 max.
	Diethylene Glycol	111-46-6	5-10 max.
	1,2-Ethanediamine, polymer with methyloxirane and oxirane	26316-40-5	5-10 max.
	Dipropylene glycol	25265-71-8	1-5 max.
	DL-Aspartic Acid	136210-30-5	1-5 max

Section 4 – First-Aid Measures

Inhalation	This product as sold/ shipped is not a likely form of exposure as all constituents are solid articles. However, during further processing (cutting, drilling, sanding, etc.), potential exposure may occur. If inhaled and breathing becomes difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Eye Contact	This product as sold/ shipped is not a likely form of exposure as all constituents are solid articles. However, during further processing (cutting, drilling, sanding, etc.), potential exposure may occur. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation develops and persists.

Skin Contact	Wash contact areas with soap and water. If irritation or rash occurs seek medical advice/ attention. Wash contaminated clothing before reuse.
Ingestion	Rinse mouth. DO NOT induce vomiting. Get medical attention immediately. If ingestion of a large amount does occur, call a poison control center immediately.
Most Important Symptoms/Effects, Acute & Delayed	This product as sold/ shipped is not a likely form of exposure as all constituents are solid articles. However, during further processing (cutting, drilling, sanding, etc.), potential exposure may occur. Breathing or swallowing dusts may cause irritation to the nose, throat, and digestive tract. Repeated exposure to dusts/ particulates could expose individuals to constituents including Wood Dust which is known to the State of California to cause Cancer.
Indication of Immediate Medical Attention & Special Treatment Needed	Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Section 5 – Fire-Fighting Measures

Suitable Extinguishing Media	Class A extinguisher.
Unsuitable Extinguishing Media	CO_2 (Carbon Dioxide) extinguishers as the material may be susceptible to reignition.
Special Hazards Arising from the Chemical	Special Hazards beyond those typically associated with a wood fire. Oxides or carbon, oxides of nitrogen may be dangerous to resin decomposition.
Unusual Fire or Explosion Hazards	NAP
Special Protective Equipment & Precautions for Firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and self-contained breathing apparatus (SCBA). Structural firefighter's protective clothing will only provide limited protection.
Fire-Fighting Equipment/ Instructions	Use standard fire-fighting procedures and consider the hazards of other involved materials. DO NOT breathe fumes.

Section 6 – Accidental Release Measures

Spill/Leak Procedures	Not applicable for this product as sold/ shipped. For spills involving finely divided particles, clean-up personnel should be protected against contact with eyes and skin. If material is in a dry state, avoid inhalation of dust. Fine, dry material should be removed by vacuuming or wet sweeping methods to prevent spreading of dust. Avoid using compressed air. Do not release into sewers or waterways. Collect material in appropriate, labeled containers for recovery and/ or disposal in accordance with federal, state, and local regulations.
Regulatory Requirements	Follow applicable OSHA regulations (29 CFR 1910.120 and Cal-OSHA 8CCR 5192) and all other pertinent state and federal requirements.
Disposal	Follow applicable federal, state, and local regulations.

Section 7 – Handling and Storage

Precautions for Safe Handling	Natural wood products are prone to have splinters and other potentially sharp features resulting from changes in moisture content (e.g. checking and splitting). Use caution when handling and always wear gloves. Avoid prolonged exposure to dusts and control exposure as necessary. Cut only in well ventilated areas. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Practice good housekeeping.
Conditions for Safe Storage	Store in a cool dry place. Away from open flame sources as the product could ignite at temperatures in excess of 350°F (177°C).

Section 8 – Exposure Control Measures / Personal Protection

Product Component	Ingredient Name	CAS Number	Cal-OSHA PEL[1]	OSHA PEL[1]	ACGIH TLV[2]
Wood Dust	Wood Dust	--	10 mg/m^3 -Total dust (PNOR)[3] 5 mg/m^3 – Respirable fraction (PNOR)	10 mg/m^3 -Total dust (PNOR)[3] 5 mg/m^3 – Respirable fraction (PNOR)	1 mg/m^3 - Inhalable particulate matter
Propylene Glycol Diamine	2-amino-, diether with propylene	9046-10-0	-	-	-
Castor Oil		8001-79-4	-	-	-
Diethyltoluenediamine		68479-98-1	-	-	-
Diethylene Glycol		111-46-6	-	-	-
1,2-Ethanediamine Polymer with Methyloxirane & Oxirane		26316-40-5	-	-	-
Dipropylene Glycol		25265-71-8	-	-	-
DL-Aspartic Acid, N, N'	(Methylenedi-4,1-cyclohexanediyl) bistetraethyl ester	136210-30-5	-	-	-

[1]OSHA Permissible Exposure Limits (PELs) are 8-hour TWA (time-weighted average) concentrations unless otherwise noted. A ("C") designation denotes a ceiling limit, which should not be exceeded during any part of the working exposure unless otherwise noted. A Short Term Exposure Limit (STEL) is defined as a 15-minute exposure, which should not be exceeded at any time during the workday.
[2]Threshold Limit Values (TLV) established by the American Conference of Governmental Industrial Hygienists (ACGIH) are 8-hour TWA concentrations unless otherwise noted.
[3]PNOR (Particulates Not Otherwise Regulated). All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the PNOR limit which is the same as the inert or nuisance dust limit of 15 mg/m^3 for total dust and 5 mg/m^3 for the respirable fraction.
[4]Inhalable fraction. The concentration of inhalable particulate for the application of this TLV is to be determined from the fraction passing a size-selector with the characteristics defined in the ACGIH TLVs and BEIs Appendix D, paragraph C.
[5]PNOS (Particulates Not Otherwise Specified). Particulates identified under the PNOS heading are "nuisance dusts" containing no asbestos and <1% crystalline silica. A TWA-TLV of 10 mg/m^3 for inhalable particulate and 3 mg/m^3 for respirable particulate has been recommended.
[6]Respirable fraction. The concentration of respirable dust for the application of this limit is to be determined from the fraction passing a size-selector with the characteristics defined in the ACGIH TLVs and BEIs Appendix D, paragraph C.
[7]The 8-hour PEL is 50 µg/m^3. If an employee is exposed to lead for more than 8 hours in any workday, the PEL as a TWA for that day, shall be reduced according to the following formula: Maximum permissible limit (in µg/m^3) = 400 divided by hours worked in that day. The Action Level is 30 µg/m^3 averaged over an 8-hour period.

Biological Limit Values	No biological exposure limits noted for the ingredient(s).
Engineering Controls	Wear respiratory protection or at least provide adequate ventilation including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
Administrative Controls	Do not use compressed air to clean-up dust or particles generated by cutting, sawing, drilling, or sanding operations.

	Eyes	Skin/Hand	Other	Respiratory
Personal Protective Equipment	Use of safety glasses with side shields or goggles required for any cutting, sawing, drilling, sanding, etc. operation. A face shield may also be required depending on the circumstance.	Wear suitable gloves to prevent contact, cuts and abrasions.	Wear appropriate clothing to prevent any possibility of contact to undesired parts of the body.	Not normally required. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust at levels exceeding the exposure limits. Seek professional advice prior to respirator selection and use. Follow Cal-OSHA and Federal OSHA respiratory regulations (8CCR Section 5144; 29 CFR 1910.134) and, if necessary, wear a NIOSH-Approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen.
Thermal Hazards	Product as sold is not expected to be a prominent source of thermal hazard exposures. Wear puncture resistant work gloves when handling the product after it has been sawed, cut, drilled, or sanded.			
General Hygiene Considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.			

Section 9 – Physical and Chemical Properties

Wood Cubes & Tops		
Physical State: Solid	Flammability Classification: Flammable, Combustible when exposed to open flames or heat sources in excess of 350°F (177°C)	Surface Tension: NAP
Appearance & Odor: Shades of Gold, Brown, or Red; Odorless	LEL: NAP	Vapor Pressure: NAV
Odor Threshold: NAP	UEL: NAP	Vapor Density (Air=1): NAV
Formula Weight: NAP	Auto-Ignition Temperature: NAV	pH: NAV
Density: 0.85-1.18 g/cc Depending on the Species of Wood Used	Water Solubility: <0.1	% Volatile: NAV
Specific Gravity (H_2O=1, at 4°C): 0.85-1.18 Depending on the Species of Wood Used	Other Solubilities: NAV	Evaporation Rate: NAP
Flash Point: NAP	Boiling Point: NAP	Freezing/ Melting Point: NAP
Flash Point Method: NAP	Viscosity: NAP	
Burning Rate: Approx. 1ft/1min when Exposed to ASTM E108 Furnace	Refractive Index: NAP	
Bullet Liner		
Appearance: Thin Black Coating	Odor: Amine odor	Specific Gravity: 1.29
Boiling Range: 132-313°C	Flash Point: 120°C (248°F)	Ignition Temperature: 229°C

Section 10 – Stability and Reactivity

Stability	The product is stable and non-reactive under normal conditions of use, storage and transport. Avoid contact with isocyanates and strong oxidizing agents.
Polymerization	Hazardous reactions or polymerization will not occur.
Chemical Incompatibilities	Avoid contact with Iron (Iron dusts) as it may cause discoloration when reacting with the wood's natural acids. Avoid contact with oxidizing agents.
Conditions to Avoid	Avoid open flame. Product may ignite at temperatures in excess of 350°F (177°C). Avoid contact with Iron (Iron dusts) as it may cause discoloration when reacting with the wood's natural acids.
Hazardous Decomposition Products	Thermal decomposition products include carbon monoxide, carbon dioxide, terpenes, oxides of nitrogen.

Section 11 – Toxicological Information – Information on likely exposure routes

Wood Cubes & Tops	
Ingestion	As sold and under normal use this product does not present an ingestion, inhalation, skin, or eye hazard. However, during further processing (cutting, sawing, drilling, sanding, etc.), potential exposure may occur from dust. **Ingestion** of dust generated may cause nausea or vomiting. **Inhalation** of dusts generated during processing especially in repeated high concentrations can produce cancer. Dust may **irritate the skin** and contact with hot material can cause thermal burns which may result in permanent damage. Dust produced during further processing may **irritate the eyes**, as can direct contact to the eye from a wood splinter, chip, shard, etc.
Inhalation	
Skin Contact	
Eye Contact	
Symptoms Related to the Physical, Chemical, & Toxicological Characteristics	Symptoms may include itching, burning, redness, and tearing of the eyes. Mechanical irritation of the skin. Or respiratory fatigue (coughing, wheezing, etc.) from inhalation of dusts.
Acute Toxicology	Wood dust may cause nasal dryness, irritation, coughing and sinusitis.
Skin Corrosion/Irritation	Contact with dusts or particulates produced by sawing, cutting, drilling, or sanding may be abrasive and mildly irritate the skin. Particulates may cause a red-brown pigmentation of the skin following repeated or prolonged exposure.
Serious Eye Damage/ Eye Irritation	Contact with dusts or particulates produced by sawing, cutting, drilling, or sanding may be abrasive and irritate the eyes causing stinging, redness, and watering.
Respiratory Sensitization	Wood dust may cause respiratory irritation, nasal dryness, coughing, sneezing, and wheezing as a result of inhalation.
Skin Sensitization	Repeated or prolonged exposure to wood dusts may cause skin disorders in sensitized individuals.
Carcinogenicity	The State of California lists Wood Dusts as a known carcinogen—nasopharyngeal and/or cancer of the nasal cavities and paranasal sinuses by inhalation.
Reproductive Toxicity	No information available on the reproductive hazard of this material. The expected exposure is not sufficient enough to classify the material as a reproductive hazard.
Specific Target Organ Toxicity-Single Exposure	Wood dust can cause eye irritation. Certain species of wood dust can cause an allergic contact dermatitis in sensitized individuals. Wood dust may cause respiratory irritation, nasal dryness, coughing, sneezing and wheezing as a result of inhalation.
Specific Target Organ Toxicity-Repeated Exposure	Wood dust may cause allergic contact dermatitis and respiratory sensitization with prolonged, repetitive contact or exposure to elevated dust levels. The State of California lists Wood Dusts as a known carcinogen—nasopharyngeal and/or cancer of the nasal cavities and paranasal sinuses by inhalation.

Aspiration Hazard	NAP	
Chronic Effects	Wood dust may cause allergic contact dermatitis and respiratory sensitization with prolonged, repetitive contact or exposure to elevated dust levels. The State of California lists Wood Dusts as a known carcinogen—nasopharyngeal and/or cancer of the nasal cavities and paranasal sinuses by inhalation.	
Further Information	*In its manufactured and shipped state, this product is considered non-hazardous.* Processing may generate hazardous dusts. The State of California lists Wood Dusts as a known carcinogen—nasopharyngeal and/or cancer of the nasal cavities and paranasal sinuses by inhalation.	
Bullet Liner		
Mixture Toxicity	Oral Toxicity LD50: 1,057 mg/kg. Dermal Toxicity LD50: 3,202 mg/kg. Inhalation Toxicity: LC50: 163 mg/L.	
Component Toxicity	CAS: 9046-10-0	Propylene glycol diamine, 2-amino-, diether with Propylene Oral LD50: 480 mg/kg (Rat), Dermal LD50: 2,2090 mg/kg (Rabbit)
	CAS: 68479-98-1	Diethyltoluenediamine Oral LD50: 485 mg/kg (Rat), Dermal LD50: 700 mg/kg (Rabbit)
Acute Toxicity	Eyes	Irritating to the eyes.
	Skin	Harmful in contact with skin.
	Inhalation	Not expected to be a route of exposure.
	Ingestion	Harmful if swallowed. Consult a doctor.
Chronic Effects	Ingestion, skin contact, eye contact	Possibly harmful to Pancreas, liver, and kidneys.

Section 12 – Ecological Information

Ecotoxicity (Aquatic & Terrestrial)	Bullet Liner: No adverse effects are to be expected if correct disposal procedures have been followed in section 13.	
(Bullet Liner)	**Component of Ecotoxicity**	
	Propylene glycol diamine	Fish – 96hr LC50 estimated > 10-100ppm, based on available data and comparison to similar compounds.
	Diethyltoluenediamine	45hr LC50 Leuciscus idus: 194 mg/L 48hr EC50 Daphnia magna: < 1mg/L 16hr EC50 Pseudomonas putida: 170 mg/L
	Diethylene glycol	96hr LC50 Pimephales promelas: 75,200 mg/L 48hr EC50 Daphnia magna: 84,000 mg/L
Environmental Fate	Wood wastes would be expected to be naturally biodegradable.	
Environmental Degradation	No data available.	
Bioaccumulative Potential	No data available.	

Soil Absorption/Mobility	No data available for the product. However, individual components of the product have been found to be absorbed by plants from soil (e.g. metal fragments from stainless-steel fasteners).
Mobility in General	Not relevant due to the form of the product. No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product. This product does not contain any of the controlled substances listed in the Annexes to the Montreal Protocol at concentrations of ≥ 0.1%.

Section 13 – Disposal Considerations

Disposal	Collect and dispose at licensed waste disposal site. Dispose in accordance with all applicable regulations. Do not dispose material into any storm water or sewage system.
Container Cleaning & Disposal	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain residual products, follow label warnings even after the container is emptied. Dispose of in accordance with applicable federal, state, and local regulations.

Section 14 – Transport Information

Wood Cubes & Tops	The DOT, IATA, and IMDG do not regulate this product as a dangerous good.
Bullet Liner	IMDG – Environmentally Hazardous Substance, N.O.S. (Contains Diethyltoluenediamine) ICAO/IATA – Environmentally Hazardous Substance, N.O.S. (Contains Diethyltoluenediamine) UN# 3082. Packing Group: III Hazard Class: 9

Section 15 – Regulatory Information

OSHA Regulations	Wood products are not hazardous under the criteria of the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, wood dust generated by sawing, cutting, drilling, or sanding processes may be considered hazardous. Bullet Liner is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	NAP
CERCLA Hazardous Substance List (40 CFR 302.4)	Wood Dust is not listed as a CERCLA hazardous substance.
Superfund Amendments & Reauthorization Act of 1986 (SARA)	**Wood Cubes & Tops:** Immediate Hazard-Yes—Wood Dust ONLY Delayed Hazard-Yes—Wood Dust ONLY Fire Hazard-No Pressure Hazard-No Reactivity Hazard-No
SARA 302 Extremely Hazardous Substance	No information available.
SARA 311/312 Hazardous Chemical	**Wood Cubes & Tops:** This product has been reviewed according to the EPA "Hazard Categories" promulgated under SARA Title III Sections 311 and 312 and is considered under applicable definitions to meet the following categories: -An immediate (acute) health hazard—yes—dust -A delayed (chronic) health hazard—yes—dust -A fire hazard—no -A reactivity hazard—no -A sudden release hazard—no **Bullet Liner:** Acute Health hazard

SARA 313 (TRI Reporting)	**Wood Cubes & Tops:** This product does not contain any chemical ingredients that exceed the threshold reporting levels established by SARA Title III, section 313 and 40 CFR section 372.
Clean Air Act (CAA) Section 112 Hazardous Air) Pollutants (HAPs) List	No information available.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	No information available.
Safe Drinking Water Act (SDWA)	No information available.
RCRA (40CFR261)	No information available.
State Regulations	This product as a whole is not listed in any state regulations. However, individual components of the product are listed in various state regulations. • Pennsylvania Worker and Community Right-to-Know Law Dipropylene glycol 25265-71-8: 1-5% Diethylene glycol 111-46-6: 5-10% Wood Dust—upon further processing e.g. cutting, sawing, drilling, sanding, etc. • California Proposition 65 Carcinogens & Reproductive Toxicity (CRT): ⚠ WARNING: This product can expose you to chemicals including wood dust, which are known to the State of California to cause cancer, and chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 16 – Other Information

Original Issue Date	05/03/2019
Version Number (Revised)	1.0
References	ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices Dasso XTR LLC MSDS—04.05.2018 WestRock SDS WR0014—Rev. 06/29/2015

Definitions of Common Terms:	ACGIH→ American Conference of Governmental Industrial Hygienists C→ Ceiling Limit CAS No. (#)→ Chemical Abstracts System Number CERCLA→ Comprehensive Environmental Response, Compensation, and Liability Act DOT→ U.S. Department of Transportation DSL→ Domestic Substance List EC_{50}→ Effective Concentration that inhibits the endpoint to 50% of control population EPA→ U.S. Environmental Protection Agency HMIS→ Hazardous Materials Identification System IARC→ International Agency for Research on Cancer IATA→ International Air Transport Association IMDG→ Internationl Maritime Dangerous Goods LC_{50}→ Concentration in Air Resulting in Death to 50% of Experimental Animals LC_{LO}→ Lowest Concentration in Air Resulting in Death LD_{50}→ Adminstered Dose Resulting in Death to 50% of Experiemntal Animals LD_{LO}→ Lowest Dose Resulting in Death LEL→ Lower Explosive Limit LFL→ Lower Flammable Limit MSHA→ Mine Safety and Health Administration NAP→ Not Applicable	NAV→ Not Available NIOSH→ National Institute for Occupational Safety and Health NFPA→ National Fire Protection Association NPRI→ (Canada) National Pollution Release Inventory NTP→ Natioanl Toxicology Program OSHA→ Occupational Safety and Health Administration PEL→ Permissible Exposure Limit PNOR→ Particulate Not Otherwise Regulated PNOS→ Particulate Not Otherwise Specified RCRA→ Resource Conservation and Recovery Act STEL→ Short Term Exposure Limit STP→ Standard Temperature and Pressure TC_{LO}→ Lowest Concentration in Air Resulting in a Toxic Effect TDG→ (Canada) Transportation of Dangerous Goods TD_{LO}→ Lowest Dose Resulting in a Toxic Effect TLV→ Threshold Limit Value TSCA→ Toxic Substance Control Act TWA→ Time-Weighted Average (8-hours) UFL→ Upper Flammable Limit WHMIS→ (Canada) WorkPlace Hazardous Materials Information System

Disclaimer: The information and data in this Safety Data Sheet applies only to the specific product designated herein and does not relate to use in combination with any other material or process. The data given here is based on current knowledge, experience, and through external sources believed to be reliable. The information contained herein has been provided by Bison Innovate Products in good faith, but Bison makes no representation as to its comprehensiveness or accuracy. The purpose of this SDS is to describe the products in terms of their safety requirements and to afford users with a guide for appropriate precautionary handling by a properly trained person(s) using this product. The data does not signify any warranty with regard to the products' properties. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees, customers, and the protection of the environment. The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. United Construction Products, dba Bison Innovative Products and its subsidiaries make no warranty of any kind, expressed or implied, concerning the accuracy or completeness of the information and data herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. United Construction Products, dba Bison Innovative Products and its subsidiaries will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

Wood Dust
TRADE NAME (AS LABELED): Saw Dust, Wood Waste

Danger!
Wood dust may cause nasopharyngeal cancer and/or cancer of the nasal cavities and paranasal sinuses by inhalation. May cause respiratory and skin sensitization and eye irritation. May form combustible dust concentrations in air if small particles exist or are formed during processing or handling.

PRECAUTIONS: Avoid breathing dust and wear appropriate protective equipment for respiratory, skin, or eye exposures. Prevent dust release and accumulations to minimize hazards. *Take off contaminated clothing and wash before reuse.* Keep dust away from ignition sources such as heat, sparks, and flame.

FIRST-AID/RESPONSE: If on skin wash with plenty of mild soap and water. If in eyes, rinse cautiously for several minutes. Remove contact lenses if present and easy to do so. If experiencing respiratory symptoms, skin irritation, or rash, call a doctor or other qualified medical professional.

Innovative Products
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