



Safety Data Sheet

Section 01 - Identification

Common / Product Name:	ResinDek® LD, SD, MD, HD, Xspan® UF ResinDek® LD, SD, MD, HD, Xspan® Gray Diamond Seal® 2, ESD, & TriGard®
Revision Date:	July 24, 2020
Recommended Use:	Flooring Products Shelving
Identification of the Company:	Universal Woods Inc. 2600 Grassland Drive Louisville, KY 40299-2591 USA
Emergency Information:	Emergency Telephone No: (502) 491 1477 Other Information Calls: (502) 491 1461 CHEMTREC 24 HR. Emergency Telephone: U.S. /North America: (800) 424-9300 International: (703) 527-3887

Section 02 - Hazard(s) Identification

Emergency Overview

This product is not hazardous in the form in which it is shipped by the manufacturer but may become hazardous by downstream activities (e.g., grinding, sanding, cutting, pulverizing) that reduce its particle size. Those hazards are described below.

Physical Hazards

Not Classified

Health Hazards

Eye Irritation	Category 2B
Sensitization, Respiratory	Category 1
Sensitization, Skin	Category 1A
Carcinogenicity	Category 1A
Specific Target Organ Toxicity, Single Exposure	Category 3 Respiratory Tract Irritation
Specific Target Organ Toxicity, Repeated Exposure	Category 1 (Respiratory System)

Environmental Hazards

Not classified

OSHA Defined Hazards

Combustible Dust

Label Elements



Signal Word

Danger

Hazard Statement

May cause an allergic skin reaction. Causes eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause cancer. Causes damage to organs (respiratory system) through prolonged or repeated exposure. If small particles of wood dust are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

Precautionary Statement**Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Prevent dust accumulation and airborne dispersion of dust to minimize flash fire and explosion hazard. Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor or other qualified medical professional. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.

Storage

Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Disposal

Dispose of contents/container in accordance to local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None Known

Supplemental Information

None

Section 03 - Composition/Information on Ingredients
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Chemical Name	CAS #	Weight %
Wood/Wood Dust	Not Assigned	80 - 100
Methylene Bisphenol Isocyanate (MDI)	101-68-8	1 - 5
Polymeric MDI (pMDI)	9016-87-9	1 - 5
2,4'-Diphenyl Methane Diisocyanate	5873-54-1	0.1 - 1
Other components below reportable levels		0.5 - 1.5

Other components below reportable levels

The specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Section 04 - First-Aid Measures
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Inhalation

Remove from area of exposure. If the affected person is not breathing, apply artificial respiration. If persistent irritation, severe coughing or breathing difficulty occurs, seek medical attention.

Skin Contact

If irritation develops, wash with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

If wood or wood dust is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

Most Important Symptoms/Effects, Acute and Delayed

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause an allergic skin reaction. Dermatitis. Rash. May cause respiratory irritation. Difficulty in breathing.

Indication of Immediate Medical Attention and Special Treatment Needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General Information If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

Section 05 - Fire-Fighting Measures

Suitable Extinguishing Media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂). Apply extinguishing media carefully to avoid creating airborne dust. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

Unsuitable Extinguishing Media Heavy water (or jet) stream may cause dust to become airborne and create a flash fire hazard or an explosive atmosphere.

Specific Hazards Arising from the Chemical Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed.

Specific Protective Equipment and Precautions for Firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire Fighting Equipment/Instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific Methods To avoid dust clouds, responders should use the extinguisher from as far away as possible and apply the extinguishing agent as gently as possible. The main considerations with hose stream operation are to avoid creating combustible dust clouds or introducing more air. In particular, the use of solid streams and direct dust pile hits can disperse dust into the air creating a potential flash fire hazard. The best way to apply water is in a medium to wide-pattern, as gently as possible. Responders should use a low nozzle pressure and loft the stream onto the burning material from as far away as the stream will reach. The use of wide-pattern (or "fog") streams at pressures typically used.

General Fire Hazards May form combustible dust concentrations in air.

Section 06 - Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation.

Methods and Materials for Containment and Cleaning Up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Vacuum dust with dust ignition proof vacuum or wet sweep small wood pieces and dust; place in appropriate container for disposal. Gather larger pieces by an appropriate method. Reduce airborne dust by use of wet methods (e.g. water mist) and prevent scattering by moistening with water. For waste disposal, see section 13 of the SDS.

Environmental Precautions Avoid discharge into drains, water courses or onto the ground.

Section 07 - Handling and Storage

Precautions for Safe Handling

Dust can form an explosive mixture in air. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. If flash fire or explosion hazard is present, wear flame resistant clothing and face/head protection. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Use personal protective equipment as required. Ensure dust collection systems used for conveying combustible wood dusts are protected with and equipped with fire and explosion prevention and protection equipment. See NFPA 664 and NFPA 69 for further requirements, information and guidance.

Conditions for Safe Storage, Including any Incompatibilities

Store flat, supported and protected from direct contact with the ground. Store away from incompatible materials (see Section 10 of the SDS). Store in a cool dry place.

Section 08 - Exposure Controls/Personal Protection

Occupational Exposure Limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Methylene Bisphenol Isocyanate (MDI) (CAS 101-68-8)	Ceiling	0.2 mg/m ³ 0.02 ppm	

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Wood/Wood Dust	TWA	5 mg/m ³ 15 mg/m ³	Respirable Fraction Total Dust

ACGIH

Components	Type	Value	Form
Wood/Wood Dust	TWA	1 mg/m ³	Inhaleable Fraction

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Methylene Bisphenol Isocyanate (MDI) (CAS 101-68-8)	TWA	0.005 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Methylene Bisphenol Isocyanate (MDI) (CAS 101-68-8)	Ceiling	0.2 mg/m ³ 0.02 ppm	
	TWA	0.05 mg/m ³ 0.005 ppm	
Wood/Wood Dust	TWA	1 mg/m ³	Dust

Biological Limit Values Exposure Guidelines

No biological exposure limits noted for the ingredient(s). Georgia-Pacific Wood Products LLC voluntarily elects to adhere to exposure limits contained in OSHA's 1989 Air Contaminants Standard although certain limits were vacated in 1992. The present OSHA exposure limits governing wood dust is 15 mg/m³ (Total Dust) and 5 mg/m³ (Respirable Fraction).

Appropriate Engineering Controls	Due to the fire and explosive potential of dust when suspended in air, precautions should be taken when material is used in any operation which may generate dust. Local exhaust, general dilution ventilation in enclosed areas, and explosion proof equipment is recommended. Use wet methods, if appropriate, to reduce airborne dust concentrations.
Individual Protection Measures, Such as Personal Protective Equipment	
Eye/Face Protection	Safety glasses or goggles are recommended when using this product. Ensure compliance with OSHA's PPE standard (29 CFR 1910.132 and .133) for eye and face protection.
Skin Protection	
Hand Protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Impervious protective clothing and gloves recommended to prevent drying or irritation of skin. Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and 138 (hand protection)). Safety shower/eye wash fountain is recommended in the workplace area (29 CFR 1910.151 (c)).
Respiratory Protection	A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).
Thermal Hazards	Wear appropriate thermal protective clothing (i.e. flame resistant clothing and head/face protection), when potential flash fire or explosion hazards are present.
General Hygiene Considerations	When using, do not eat, drink or smoke. 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. Contaminated work clothing should not be allowed out of the workplace.

Section 09 - Physical and Chemical Properties

Appearance	Rigid boards or panels
Physical State	Solid
Form	Solid Wood
Color	Various
Odor	Not Available
Odor Threshold	Not Available
pH	Not Applicable
Melting Point/Freezing Point	Not Applicable
Initial Boiling Point and Boiling Range	Not Available
Flash Point	Not Applicable
Evaporation Rate	Not Applicable
Flammability (Solid, Gas)	Not Applicable
Upper/Lower Flammability or Explosive Limits	
Flammability Limit - Lower (%)	40 g/cm ³ for wood dust (Note: The LEL is equivalent to the Minimum Explosive Concentration (MEC) for the combustible dust. The MEC will vary with particle size of the wood dust. Recommend MEC testing for specific wood dust particle sizes generated or handled.)
Flammability Limit - Upper (%)	Not Available
Explosive Limit - Lower (%)	Not Available
Explosive Limit - Upper (%)	Not Available

Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Relative Density	Not Available
Solubility(ies)	
Solubility (Water)	Insoluble
Partition Coefficient (n-octanol/water)	Not Applicable
Auto-ignition Temperature	399.92 - 500 °F (204.4 - 260 °C) for wood
Decomposition Temperature	Not Available
Viscosity	Not Available
Other Information	
Bulk Density	Not Applicable
Dust Explosion Properties	
St Class	1 Weak Explosion
Explosive Properties	Not Explosive
Flash Point Class	Combustible
Oxidizing Properties	Not Oxidizing
Specific Gravity	Variable

Section 10 - Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Material is stable under normal conditions.
Possibility of Hazardous Reactions	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	Dust accumulation, dispersion of dust in air, high temperatures, open flame, sparks, or other sources of ignition.
Incompatible Materials	Strong acids, alkalis, oxidizing agents and drying oils.
Hazardous Decomposition Products	Thermal decomposition may emit irritating fumes or gases of carbon monoxide, carbon dioxide, aldehydes, or organic acids.

Section 11 - Toxicological Information

Information on Likely Routes of Exposure

Inhalation	Inhalation of dusts may cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if dust inhaled. Prolonged inhalation may be harmful.
Skin Contact	May cause an allergic skin reaction.
Eye Contact	Causes eye irritation.
Ingestion	Not applicable under normal conditions of use. May result in obstruction or temporary irritation of the digestive tract.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes. Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash. May cause respiratory irritation. Difficulty in breathing.

Information on Toxicological Effects

Acute Toxicity

Product	Acute Dermal	Species	Test Results
Methylene Bisphenol Isocyanate (MDI) (CAS 101-68-8)	LD50	Rabbit	> 10,000 mg/kg
	Inhalation	Species	Test Results
	Vapor - LC50	Rat	0.178 mg/L
	Oral - LD50		> 10,000 mg/kg

*Estimates for product may be based on additional component data not shown.

Skin Corrosion/Irritation	Prolonged skin contact may cause temporary irritation.
Serious Eye Damage/Eye Irritation	Causes eye irritation.

Respiratory or Skin Sensitization	
Respiratory Sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sensitization	May cause an allergic skin reaction.
Germ Cell Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Wood dust generated from sawing, sanding or machining this product may cause nasal dryness, irritation, coughing and sinusitis. The International Agency for Research on Cancer (IARC), and National Toxicology Program (NTP) classifies wood dust as a carcinogen. This classification is based on the increased occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation noted insufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon, or rectum with exposure to wood dust.

IARC Monographs. Overall Evaluation of Carcinogenicity

Methylene Bisphenol Isocyanate (MDI) (CAS 101-68-8)	3	Not classifiable as to carcinogenicity to humans.
Polymeric MDI (pMDI) (CAS 9016-87-9)	3	Not classifiable as to carcinogenicity to humans.
Wood/Wood Dust (CAS Not Assigned)	1	Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not Regulated

US. National Toxicology Program (NTP) Report on Carcinogens

Wood/Wood Dust (CAS Not Assigned) Known to be human carcinogen.

Reproductive Toxicity

This product is not expected to cause reproductive or developmental effects.

Specific Target Organ Toxicity - Single

May cause respiratory irritation.

Exposure

Specific Target Organ Toxicity - Repeated

Causes damage to organs (respiratory system) through prolonged or repeated exposure.

Exposure

Aspiration Hazard

Not an aspiration hazard.

Chronic Effects

Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Section 12 - Ecological Information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and Degradability	No data is available on the degradability of this product.
Bioaccumulative Potential	No Data Available
Mobility in Soil	No Data Available
Other Adverse Effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13 - Disposal Considerations

Disposal Instruction	Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Local Disposal Regulations	Dispose in accordance with all applicable regulations.
Hazardous Waste Code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from Residues/Unused Products	Dispose of in accordance with local regulations.
Contaminated Packaging	Empty packing/container can be disposed in accordance with all applicable regulations.

Section 14 - Transport Information

DOT	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
Transport in Bulk According to Annex II of MARPOL 73/78 and IBC Code	Not Applicable

Section 15 - Regulatory Information

US Federal Regulations Wood and wood products are considered manufactured articles and are exempt under OSHA's Hazard Communication Standard 29 CFR 1910.1200. Wood dust, a by-product generated from sawing, sanding or machining wood and wood products, is considered hazardous and is regulated under the Hazard Communication Standard 29 CFR 1910.1200.

Toxic Substance Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not Regulated

TSCA Chemical Action Plans, Chemical of Concern	2,4'-Diphenyl Methane Diisocyanate (CAS 5873-54-1)	Methylene Diphenyl Diisocyanate (MDI) and Related Compounds Action Plan [RIN 2070-ZA15]
	Methylene Bisphenol Isocyanate (MDI) (CAS 101-68-8)	Methylene Diphenyl Diisocyanate (MDI) and Related Compounds Action Plan [RIN 2070-ZA15]
	Polymeric MDI (pMDI) (CAS 9016-87-9)	Methylene Diphenyl Diisocyanate (MDI) and Related Compounds Action Plan [RIN 2070-ZA15]

CERCLA Hazardous Substance List (40 CFR 302.4) Methylene Bisphenol Isocyanate (MDI) (CAS 101-68-8) Listed

SARA 304 Emergency Release Notification Not Regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) Not Regulated

Superfund Amendments and reauthorization Act of 1986 (SARA)

SARA 302 Extremely Hazardous Substance Not Listed

SARA 311/312 Hazardous Chemical Yes

Classified	Combustible Dust
Hazard	Serious Eye Damage or Eye Irritation
Categories	Respiratory or Skin Sensitization Carcinogenicity Specific Target Organ Toxicity (Single or Repeated Exposure)

SARA 313 (TRI) Reporting

Chemical Name	CAS Number	% by Wt.
Methylene Bisphenol Isocyanate (MDI)	101-68-8	1 - 5
Polymeric MDI (pMDI)	9016-87-9	1 - 5

Other Federal Regulations**Clean Air Act (CAA) Section 112 Hazardous** Methylene Bisphenol Isocyanate (MDI) (CAS 101-68-8)**Air Pollutants (HAPs) List****Clean Air Act (CAA) Section 112(r)** Not Regulated**Accidental Release Prevention (40 CFR 68.130)****Safe Drinking Water Act (SDWA)** Not Regulated**US State Regulations****California Proposition 65****WARNING:**

Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust, or use a dust mask or other safeguards for personal protection. For more information go to: www.P65Warnings.ca.gov/wood

US - California Proposition 65 - CRT: Listed Wood/Wood Dust (CAS Not Assigned)
date/Carcinogenic substance

Listed: 12/18/2009

US. California. Candidate Chemicals List. 2,4'-Diphenyl Methane Diisocyanate (CAS 5873-54-1)

Safer Consumer Products Regulations Methylene Bisphenol Isocyanate (MDI) (CAS 101-68-8)

(Cal. Code Regs, tit. 22, 69502.3, subd. (a)) Polymeric MDI (pMDI) (CAS 9016-87-9)

Internal Inventories

Country(s) or Region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
United States and Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 - Other Information

Issuing Date: 07-23-20

Further Information

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

HMIS® Ratings

Health: 2*
 Flammability: 1
 Physical hazard: 0

NFPA Ratings

Health: 2
 Flammability: 1
 Physical hazard: 0

Disclaimer

This SDS is intended to quickly provide useful information to the user(s) of this material or product. It is not intended to serve as a comprehensive discussion of all possible risks or hazards, and it assumes a reasonable use of the product. The information contained in this SDS is believed to be accurate as of the date of preparation of this SDS and has been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. The user or handler (or their employer) should consider the specific conditions in which this material will be used, handled, or stored and determine what specific safety or other precautions are required. The condition or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.