

1. Product and Company Identification

Material name	WOOD PRODUCTS (Asphalt Impregnated and/or Coated)
Product use	External wall sheathing; insulation board; and roofing underlayment
Product List	See Product List found in Section 16
Synonym(s)	Fiberboard * Blackboard * Softboard * Insulation Board * Roofing Underlayment * Engineered Board
Chemical description	Composed of wood fibers bonded with asphalt pitch and starch; rendered water resistant by the addition of paraffin wax and asphalt containing coatings.
Manufacturer information	Georgia-Pacific Wood Products LLC 133 Peachtree Street, NE Atlanta, GA 30303 MSDS Request 404.652.5119 Technical Information 800.284.5347 Chemtrec - Emergency 800.424.9300

2. Hazards Identification

Emergency overview	Sawing, sanding or machining wood or wood products can generate dust. Wood dust may ignite or form explosive mixture with air. Wood dust or asphalt may be irritating to eyes, skin or respiratory system. If heated beyond 200°F, or if the product catches fire, product will emit toxic fumes and/or gases. Avoid inhaling asphalt fumes and/or gases.
Target organs	Eyes, skin and respiratory system
Potential health effects	
Eyes	Dust or splinters may cause irritation or injury to the eyes.
Skin	Contact with skin may cause irritation.
Inhalation	Dust or asphalt fume when heated may cause irritation to the nose, throat or respiratory tract.
Ingestion	Due to material form and application, ingestion is considered unlikely. May result in irritation of the digestive tract.
Chronic effects	Dust and or asphalt may aggravate preexisting skin, eye and respiratory conditions or allergies.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Asphalt	8052-42-4	7 - 13
Wood/Wood Dust	Not Assigned	60 - 100
Petroleum Pitch	68187-58-6	5-10

4. First Aid Measures

First aid procedures	
Eye contact	In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. Do not rub the eyes. Get medical attention immediately.
Skin contact	If irritation develops, wash with soap and water. Get medical attention if irritation persists.
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, get medical attention.
Ingestion	If wood or wood dust is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

5. Fire Fighting Measures

General fire hazards	Asphalt impregnated and/or coated wood, if heated or catches fire, will emit irritating fumes and/or gases. Wood is combustible when exposed to heat or flame. Wood dusts may form explosive mixtures with air in the presence of an ignition source. An airborne dust concentration of 40 g/m ³ of air is often used as the lower explosion limit (LEL) for wood dust.
-----------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Extinguishing media

Suitable extinguishing media Use methods for the surrounding fire.

Protection of firefighters

Protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus. Partially burned dust is especially hazardous if dispersed into the air. Wet down to reduce likelihood of ignition or dispersion. Remove burned or wet dust to open, secure area after fire is extinguished.

Explosion data

Sensitivity to static discharge Not available

Sensitivity to mechanical impact Not available

Hazardous combustion products

Burning of asphalt impregnated and/or coated wood can produce irritating fumes and gases, black smoke, carbon dioxide, carbon monoxide, sulfur oxides and hydrogen sulfide.

6. Accidental Release Measures

Personal precautions Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Avoid inhalation of dust during clean up.

Methods for cleaning up Vacuum or wet sweep small pieces and dust; place in appropriate container for disposal. Gather larger pieces by an appropriate method. Reduce airborne dust and prevent scattering by moistening with water. Do not inhale dust during clean up. Use NIOSH/OSHA approved dust mask or filtering facepiece where ventilation is not possible and exposure limits could be exceeded.

7. Handling and Storage

Handling Dust can form an explosive mixture in air. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Use personal protective equipment as required. Avoid frequent or prolonged inhalation of wood dust. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Keep formation of airborne dusts to a minimum. Keep away from heat and sources of ignition.

Storage Store flat, supported and protected from direct contact with the ground. Keep in a well-ventilated place away from incompatible materials. Store in a cool dry place.

8. Exposure Controls / Personal Protection

Exposure guidelines 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).

Wood/Wood Dust (CAS # Not Assigned)

	TWA	STEL	Ceiling
ACGIH	1 mg/m ³ TWA (Inhalable)	Not established	Not established
OSHA	5 mg/m ³ TWA (Total Dust) (Vacated)	10 mg/m ³ (Vacated)	Not established

Asphalt (CAS # 8052-42-4)

	TWA	STEL	Ceiling
ACGIH	0.5 mg/m ³ TWA fume, inhalable fraction, as benzene soluble aerosol	Not established	Not established
OSHA	Not established	Not established	Not established

Petroleum Pitch (CAS # 68187-58-6)

	TWA	STEL	Ceiling
ACGIH	Not established	Not established	Not established
OSHA	Not established	Not established	Not established

Engineering controls	Due to the explosive potential of dust when suspended in air, precautions should be taken when sawing, sanding, or machining wood or wood products to prevent sparks or other ignition sources in ventilation equipment. Local exhaust ventilation is recommended when sawing, sanding, or machining this product. General dilution ventilation is recommended in processing and storage areas. Use wet methods, if appropriate, to reduce generation of dust.
Personal protective equipment	
Eye / face protection	Safety glasses or goggles are recommended when using product. Ensure compliance with OSHA's PPE standard (29 CFR 1910.132 and .133) for eye and face protection.
Skin protection	Impervious protective clothing and gloves recommended to prevent drying or irritation of hands. 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 dusty environments and where ventilation is not sufficient to keep dust or asphalt fume levels below permissible exposure limits. 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)

9. Physical & Chemical Properties

Appearance	Rigid board
Color	Black
Odor	Resinous wood
Odor threshold	Not available
Physical state	Solid.
pH	Not applicable
Melting point	Not applicable
Freezing point	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Combustible
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	40 g/cm ³ for wood dust
Vapor pressure	Not applicable
Vapor density	Not applicable
Specific gravity	Variable
Relative density	Not available
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	399.2 - 500 °F (204.4 - 260 °C) for wood
Decomposition temperature	Not available
Bulk density	Not applicable

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Contact with incompatible materials. High temperatures. Heat, flames and sparks. Dust may form explosive mixture in air.
Conditions of Reactivity	None known.
Incompatible materials	Solvents or solvent-based adhesives. Oxidizing agents and drying oils.
Hazardous decomposition products	Burning of asphalt impregnated and/or coated wood can produce irritating and potentially toxic fumes and gases, black smoke, carbon dioxide, carbon monoxide, sulfur oxides and hydrogen sulfide.

Possibility of hazardous reactions Will not occur.

11. Toxicological Information

Toxicological information No toxicological data available for this product. Toxicological information for components of this product is listed below.

WOOD DUST. Wood dust may cause dryness, irritation, coughing or sinusitis. IARC and NTP classify 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 cancer of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.

ASPHALT. Asphalt exists in a solid state and does not impart any special hazard to the product. If asphalt containing product is heated or comes in contact with heated material, avoid breathing fumes.

Toxicological information (Ingredients)

Asphalt (CAS # 8052-42-4)

Toxicology Data - Selected LD50s and LC50s

Oral LD50 Rat: 5000 mg/kg

Dermal LD50 Rabbit: 2000 mg/kg

Petroleum Pitch (CAS # 68187-58-6)

Toxicology Data - Selected LD50s and LC50s

Oral LD50 Rat: 4320 mg/kg

Dermal LD50 Rabbit: 2000 mg/kg

Dermal LD50 Rat: 2000 mg/kg

Irritancy Wood dust may cause irritation to eyes, skin an/or lungs.

Sensitization Not available.

Carcinogenicity

Wood/Wood Dust (CAS # Not Assigned)

IARC - Group 1 (Carcinogenic to Humans)

NTP (National Toxicology Program) - Report on Carcinogens - Known Human Carcinogens

U.S. - OSHA - Hazard Communication Carcinogens

Monograph 62 [1995]

Known Human Carcinogen

Present

Mutagenicity Not available.

Reproductive effects Not available.

Teratogenicity Not available.

Synergistic materials Not applicable.

12. Ecological Information

Ecotoxicity

Petroleum Pitch (CAS # 68187-58-6)

Ecotoxicity - Freshwater Fish Species Data

96 Hr LC50 Brachydanio rerio: 48 mg/L [semi-static]

Environmental effects Not available.

13. Disposal Considerations

Disposal instructions 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. Dispose of material according to Local, State, Federal, and Provincial Environmental Regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

This product is not regulated as a hazardous material by the United States (DOT) transportation regulations

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

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.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Section 313 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	Compliant w/inventory requirements (yes/no)
Canada	Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

16. Other Information

Product list

Stedi-R® Regular Fiberboard Sheathing (Blackboard or Softboard Sheathing)

Stedi-R® Structural Fiberboard Sheathing

Mobile Home Fiberboard Sheathing

High Density Roof Fiberboard

Regular Density Roof Fiberboard

Expansion Joint Substrate

Structural Expansion Joint Substrate

® is a Registered Trademark of Georgia-Pacific LLC

HMIS® ratings Health: 1*
Flammability: 1
Physical hazard: 0
Personal protection: X

NFPA ratings Health: 1
Flammability: 1
Instability: 0

Disclaimer

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. Georgia-Pacific 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. Georgia-Pacific 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.

Effective Date

12-Jan-2009

Supersedes

15-Mar-2007

Prepared byGeorgia-Pacific LLC
404.652.5119