



Information sheet on safe handling of Kebony wood

May 20, 2021

Index:

- Information Sheet: Health Safety and Environment (EN).....p. 2-11
- Informasjonsblad: Helse, Miljø og Sikkerhet (NO).....p. 12-21
- Informationsblad: Hälsa, Miljö och Säkerhet (SE).....p. 22-31
- Informationsblad: Helse, Miljø og Sikkerhed (DK).....p. 32-40
- Fiche informative: Santé, sécurité et environnement (FR)...p. 41-51
- Infoblatt: Gesundheit, Sicherheit und Umwelt (DE).....p. 52-62
- Informatie fiche: Gezondheid, veiligheid en milieu (BE/NL)..p. 63-73





INFORMATION SHEET

1. Aim of this document

1.1 Introduction

The aim of this document is to provide information regarding safe handling of Kebony Wood.

Product name:	Kebony wood. Modified wood.
---------------	------------------------------------

1.2 Relevant identified uses

Product use:	Flooring, furniture, cladding, decking, interior and exterior.
Uses advised against:	-

1.3 Details of the supplier

Manufacturer's name:	Kebony Norge AS
Address:	Havnevegen 35 3739 Skien NORGE
Email address:	info@kebony.com
Phone:	+47 06125
Language:	English and Norwegian spoken
Opening hours:	Weekdays from 08:00 to 16:00

1.4 Emergency telephone number

Number:	+47 225 91 300 (Toxic information center in Norway)
---------	---

1.5 Other information

Date issued:	2021-05-20
Previous revision date:	2019-09-09



2. HAZARD IDENTIFICATION

Product Description: Kebony wood is produced from sustainable wood, treated with a bio-based renewable additive. In this process, bio-based substances are fully cured inside the wood. The wood becomes harder and more stable, and its durability is improved.

Health Hazards: The primary health hazard related to product is the inhalation of dust from sawing, sanding or machining, which can cause respiratory irritation. Skin and eye contact with dust may also cause irritation. Wood dust is considered as carcinogenic to humans according to WHO/IARC. Specific exposure limits are applicable see section 8.

Flammability Hazards: This product is flammable only in the presence of an ignition source. See section 5.

Reactivity Hazards: None known for the product.

Environmental Hazards: The product or chips/fiber/dust from the product have no known harmful effects to the environment.

Emergency considerations: Personnel intervening in a fire accident must use appropriate personal protective equipment and fire extinguishing equipment to respond to wood fire. Particular considerations must be taken in case of a fire in a storage facility, in order to avoid any dust explosions.

Other hazards: Wood waste (i.e. chips/fiber/dust) has self-ignition risks. See section 5.2.

3. COMPOSITION and INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:	CAS #	EINECS #	ICSC #	WT %	HAZARD CLASSIFICATION; RISK PHRASES
Wood	N.E	N.E	N.E	50 – 80 %	None
Furfuryl alcohol polymer	N.E	N.E	N.E	20 – 50 %	None
N.E = Not established					
Balance of water and other components. Each of the other components is present in less than 1 percent concentration (0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens)					

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. 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, EU Directives and the Japanese Industrial Standard *JIS Z 7250: 2000*.

Hazard description: Kebony wood is not hazardous in itself, according to the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, wood dust is carcinogenic to humans (group 1) according to WHO/IARC.



4. FIRST-AID MEASURES

4.1. Description of first aid measures

General:	The following is relative to wood dust exposure. If symptoms persist seek medical attention and bring a copy of this information sheet.
Eye contact:	Immediately flush eyes thoroughly with water being sure to lift both eyelids. If irritation persists, seek medical attention.
Skin contact:	Wash skin with soap and water. If irritation persists, seek medical attention.
Inhalation:	Remove to fresh air. Seek medical help if coughing and other symptoms do not subside.
Ingestion:	If wood chips or wood dust is swallowed, seek immediately medical advice – Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms:	Irritation
Other information:	Pre-existing upper respiratory and lung diseases may be aggravated by exposure to wood dust. Wood dust causes cancer of the nasal cavity and paranasal sinuses and of the nasopharynx.

4.3 Indication of any immediate medical attention and special treatment needed

Other information:	None.
--------------------	-------

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable fire-fighting media:	Water, carbon dioxide (CO ₂), sand
-------------------------------	--

5.2 Special hazards arising from the product

Fire and explosion hazard:	<p>The product is only combustible when in contact with an ignition source.</p> <p>The product is not explosive with mechanical shock or static electricity.</p> <p>Wood residues (ie. chips/fiber/dust) has self-ignition risks, and may be reactive even in the absence of air. Avoid storage in wet/moist environment and temperatures above 30 °C.</p> <p>Wood dust suspended in air represents an explosion hazard when in contact with an ignition source. This is dependent on the humidity and particle size.</p> <p>The lower explosion level (LEL) for wood dust is 40 g/m³.</p>
Hazardous decomposition products:	Carbon dioxide (CO ₂), Carbon monoxide (CO).



5.3. Advice for firefighters

Special fire-fighting procedures:	Incipient fire responders should wear eye protection. Structural fire fighters must wear Self-Contained Breathing Apparatus and full protective equipment.	
NFPA rating:	<p style="text-align: center;">FLAMMABILITY</p> <p style="text-align: center;">HEALTH 1 REACTIVITY</p> <p style="text-align: center;">OTHER</p>	<p>Scale:</p> <p>0 = Minimum</p> <p>1 = Small</p> <p>2 = Moderate</p> <p>3 = Severe</p> <p>4 = Extreme</p>

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:	Avoid dust formation. Protective equipment should be used to avoid contact with wood dust.
-----------------------	---

6.2. Environmental precautions

Environmental precautions:	Not harmful to the environment.
----------------------------	---------------------------------

6.3. Methods and material for containment and cleaning up

Cleaning method:	Vacuum or wet sweeping is the preferred method for the dry fine materials to reduce airborne dust. Scrape up wet material and place in an appropriate container. Avoid dry sweeping, which creates dust.
------------------	--

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling:	Handle in well-ventilated areas and avoid dust formation. Avoid eye and skin contact and inhalation of wood dust. Use protective equipment (see point 8). Do not eat, drink or smoke while handling this product. Follow good hygiene. Wash hands before eating or smoking.
-----------	--

7.2 Conditions for safe storage, including any incompatibilities

Storage:	Ensure good ventilation. Normal temperature and pressure do not impact the product.
----------	--

7.3 Specific end use(s)

Specific end use:	See paragraph 1.2.
-------------------	--------------------

8. EXPOSURE CONTROLS - PERSONAL PROTECTION



8.1 Exposure limit values

Administrative standards:	<p>The exposure limit for hardwood dust are:</p> <p>EU_OSHA: 2 mg/m³,((Directive 2004/37/EC, ANNEX III). (3mg/m³ until 17Jan2023)</p> <p>Belgium: 2mg/m³</p> <p>United kingdom: 5mg/m³</p> <p>The Netherlands : 2mg/m³</p> <p>Germany: 2mg/m³ (BOELV)</p> <p>US OSHA: 15mg/m³ (Total dust) (Particulates Not Otherwise regulated (PNOR))</p> <p>US OSHA: 5mg/m³ (Respirable Dust Fraction (PNOR))</p> <p>Canada : 1mg/m³</p> <p>Norway: 1 mg/m³</p>
---------------------------	---

8.2 Exposure controls

8.2.1 Occupational exposure controls

General:	<p>Follow good hygiene and housekeeping practices.</p> <p>Ensure good ventilation.</p>
----------	--

8.2.2 Individual protection measures

Respiratory protection:	Use dust masks with P3-filter if ventilation and extraction are not sufficient.
Hand protection:	Use protective gloves to avoid splinters when handling the product.
Eye protection:	<p>Use eye protection when handling the product</p> <p>Saline eyewash should be available in locations where the product is handled.</p>
Skin protection:	Use protective clothing when handling the product.

8.2.3 Environmental exposure control

General:	Follow good hygiene and housekeeping practices.
----------	---

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Wood
Color:	Brown or dark brown
Smell:	Characteristic, similar to turpentine
Solubility in water:	Not soluble
Auto-ignition temperature	250-320°C (wood chips/savings)

9.2 Other information

Density:	550 - 900 kg/m ³
----------	-----------------------------



10. STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity:	Stable.
-------------	---------

10.2 Chemical stability

Stability:	Stable.
------------	---------

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions:	Avoid contact with oxidizing agents.
-------------------------------------	--------------------------------------

10.4 Conditions to avoid

Conditions to avoid:	<ul style="list-style-type: none"> Avoid open flame <p>Special precautions for sawdust:</p> <ul style="list-style-type: none"> Wood residues from cutting, sawing, planing must not be stored in areas where the temperature exceeds 30 °C Avoid absorption of water <p>Additional precautions should be taken when storing more than 1 m³ of waste. Please refer to the information sheet on safe handling of waste from machining of Kebony wood.</p>
----------------------	---

10.5 Incompatible materials

Incompatible materials:	-
-------------------------	---

10.6 Hazardous decomposition products

Hazardous decomposition products:	Carbon monoxide (CO), Carbon dioxide (CO ₂) will form during combustion.
-----------------------------------	--

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

General:	Effects on exposure to the product itself is unlikely. However exposure to wood dust can occur when handling waste product from the machining of Kebony wood. The following information is related to wood dust exposure
Eye contact:	Irritation and burning sensation.
Skin contact:	Irritation.
Inhalation:	Irritation of the respiratory track, coughing and sneezing.
Ingestion:	Ingestion is an unlikely exposure route.
Allergy:	Repeated and long-term exposure to wood dust can result in an allergic reaction.
Toxicity:	Wood dust (softwood or hardwood) OSHA hazard rating = 3.3; moderately toxic with probable oral lethal dose to humans being 0.5 – 5 g/kg. (about 1 pound for a 150 pound person). <i>Source: OSHA Regulated hazardous Substances, Government Institutes, Inc.</i>
Carcinogenicity:	Wood dust is classified as carcinogenic to humans (Group 1) by WHO/IARC and by Arbeidstilsynet (Norwegian Labor Inspectorate).



	This IARC classification is primarily based on studies that show a correlation between wood dust exposure and nose and sinus cancers. IARC has found no evidence of correlation between wood dust and other forms of cancer.
Reprotoxicity:	Data does not indicate that wood dust may have an effect on the reproduction system.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity:	Not classified.
-----------	-----------------

12.2 Persistence and degradability

Persistence and degradability:	The product is fully biodegradable.
--------------------------------	-------------------------------------

12.3 Bio accumulative potential

Bio accumulative potential:	The product does not bio-accumulate.
-----------------------------	--------------------------------------

12.4 Mobility in soil

Mobility in soil:	Not soluble in water and consequently not mobile in soil.
-------------------	---

12.5 Results of PBT and vPvB assessment

Results:	Does not classify as PBT or vPvB
----------	----------------------------------

12.6 Other adverse effects

Other effects:	None.
----------------	-------

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

General:	<p>Not classified as hazardous waste</p> <p>According to Decision 2014/955/EU the concentration of furfuryl alcohol monomer in the product is below the limit for classification as hazardous waste.</p> <p>Always dispose of waste material according to local, state and federal regulations.</p> <p>In households, it is safe to fire stoves and fireplaces with Kebony wood.</p>
----------	---

**13.1.1 Product/packaging disposal:**

Waste code EAL:	<p>Construction and demolition wastes (including excavated soil from contaminated sites): 17 02 01 (wood)</p> <p>Municipal wastes (household waste and similar commercial, industrial and institutional waste) including separately collected fractions): 20 01 38 (wood other than that mentioned in 20 01 37)</p> <p>Waste from wood processing and the production of panels and furniture, pulp, paper and cardboard 03 01 05 (sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04)</p>
Packaging:	<p>Dispose according to local regulations. Recycle when possible.</p>

13.1.2 Waste treatment – relevant information

Not relevant.

13.1.3 Sewage disposal – relevant information

Not relevant.

13.1.4 Other disposal recommendations

Not relevant.

14. TRANSPORT INFORMATION

General:	The product is not classified as dangerous goods (ADR/RID, IMDG, IATA/ICAO, IMO, US DOT, Transport Canada).
----------	---

14.1. UN number

Not classified.

14.2 UN proper shipping name

Not classified.

14.3 Transport hazard class(es)

Not classified.

14.4 Packing group

Not classified.

14.5 Environmental hazards

Not classified.

14.6 Special precautions for user

Not classified.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not classified.



15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the product

United States of America:	<p>SARA Reporting Requirements: No</p> <p>Marine Pollutant: No</p> <p>U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable.</p> <p>U.S. TSCA INVENTORY STATUS: All the components of this product are listed in the TSCA Inventory or have applied for listing.</p> <p>CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product does not contain any component above the 0.1% level, which is listed as a California Proposition 65 chemical. Wood dust is listed on the California proposition 65.</p>
Canada:	<p>CANADIAN DSL/NDL INVENTORY STATUS: None of the components of this product are on the DSL Inventory</p> <p>CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.</p> <p>CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This is not considered to be a hazardous material under the Hazardous Products Act.</p>
European Union:	<p>REACH REGULATION ANNEX XVII Entry 9 (Wood powder)</p> <p>1. Shall not be used, in jokes and hoaxes or in mixtures or articles intended to be used as such, for instance as a constituent of sneezing powder and stink bombs. 2. Jokes and hoaxes, or mixtures or articles intended to be used as such, not complying with paragraph 1 shall not be placed on the market. 3. However, paragraphs 1 and 2 shall not apply to stink bombs containing not more than 1,5 ml of liquid.</p> <p>HARDWOOD DUST: Directive 2004/37/EC, ANNEX III and its amendment: Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work</p> <p>This product is exempted from the obligation to provide a safety data sheet according to the Reach Regulation (EC) 1907/2006.</p>
Australia:	<p>AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: None of the components of this product are listed on the AICS.</p> <p>STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.</p>
Japan:	<p>JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are listed as follows by the Japanese MITI:</p> <ul style="list-style-type: none"> - Class I Specified Chemical Substances, - Class II Specified Chemical Substances, or - Designated Chemical Substances.

International chemical inventories:	Listing of the components on individual country Chemical Inventories is as follows:	
	Asia-Pac:	Not all components listed.
	Australian Inventory of Chemical Substances (AICS):	Not all components listed



	Korean Existing Chemicals List (ECL):	Not all components listed
	Japanese Existing National Inventory of Chemical Substances (ENCS):	Not all components listed
	Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Not all components listed
	Swiss List of Toxic Substances:	Not all components listed
	U.S. TSCA:	Listed or have applied for listing.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this product by the supplier.

16. OTHER INFORMATION

Additional information:	Information sheet on safe handling of waste from machining of Kebony wood is available on www.kebony.com .
Sources used to prepare this document	OSHA, Regulated hazardous Substances, Government Institutes. Directive 2004/37/EC, ANNEX III and its amendments Arbeidstilsynet, Veiledning om Administrative normer for forurensning i arbeidsatmosfære Reach Regulation (EU) 1907/2006 and its amendments. Guidance on the compilation of safety data sheets, Version 3.1, ECHA-15-G-07.1-EN, ISBN:978-92-9247-514-7
Changes from last version:	Updated information about self-ignition risk for wood residues, paragraph 2, 5.2 and 10.4
Prepared by:	Kebony AS
Revised by:	Kebony AS

This Information Sheet applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this document. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this document is based on technical data judged to be reliable, Kebony AS assumes no responsibility for the completeness or accuracy of the information contained herein. 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 and customers and protection of the environment