

TEC WOOD PERFECT

Version 0.0 Revision Date 00/00/0000

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TEC WOOD PERFECT

Product code : 100000034682

Manufacturer or supplier's details

Company : H.B. Fuller Company

Address : 1200 Willow Lake Boulevard

Vadnais Heights, MN 55110

Telephone : 1-651-236-5842

Medical Emergency Phone Number (24 Hours): 1-888-853-1758

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Isocyanate based product

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	Liquids	
Color	light brown	
Odor	Characteristic	

GHS Classification

Skin irritation : Category 2
Eye irritation : Category 2A
Respiratory sensitisation : Category 1
Skin sensitisation : Category 1
Specific target organ toxicity - : Category 2

repeated exposure

Specific target organ toxicity -

: Category 2 (Respiratory Tract)

repeated exposure

(Inhalation)

....,

GHS label elements

Hazard pictograms

Signal Word : Danger

Hazard Statements:



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H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

Precautionary Statements:

Prevention: P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ eye protection/ face protection. P285 In case of inadequate ventilation wear respiratory protection.

Response: P302 + P352 IF ON SKIN: Wash with plenty of water. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Carcinogenicity:

OSHA

IARC Group 1: Carcinogenic to humansDuring normal handling of the

product, this substance is encapsulated within the product and

will not present a cancer exposure risk.

quartz (SiO2) 14808-60-7

No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

Known to be human carcinogenDuring normal handling of the

product, this substance is encapsulated within the product and

will not present a cancer exposure risk.

quartz (SiO2) 14808-60-7

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
calcium carbonate	471-34-1	45 - 70
limestone	1317-65-3	45 - 70
4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with .alpha -hydroomegahydroxypoly(oxy-1,2-ethanediyl)	9048-57-1	10 - 30
Glass, oxide, chemicals	65997-17-3	1 - 5
Sodium borosilicate	50815-87-7	1 - 5
4,4'-methylenediphenyl diisocyanate	101-68-8	1 - 5
quartz (SiO2)	14808-60-7	0.1 - 1

SECTION 4. FIRST AID MEASURES

General advice : Even minimal concentrations of isocyanate can lead to a



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reaction in sensitised people.

Symptoms that may occur include the following:

irritation of the eyes, nose, throat and lungs, possibly together with a dry throat, a feeling of chest tightness and breathing

difficulties.

Immediately remove clothing if soiled by product. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the

accident.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

In case of unconsciousness bring patient into stable side

position for transport.

In case of skin contact : Wash off with polyethylene glycol and afterwards with plenty

of water.

Use a mild soap if available.

Treat affected skin with cotton wool or cellulose. Call a physician if irritation develops or persists.

In case of eye contact : Flush eyes with water at least 15 minutes. Get medical

attention if eye irritation develops or persists.

Protect unharmed eye.

If swallowed : Do NOT induce vomiting.

If accidentally swallowed obtain immediate medical attention.

Most important symptoms and effects, both acute and

delayed

: Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

May cause damage to organs through prolonged or repeated

exposure.

Notes to physician : In instances of existing sensitisation towards isocyanates, a

doctor should be consulted with regards to work-related contact with other sensitising substances, or substances

which irritate the airway.

Treatment for exposure should be geared towards monitoring

symptoms and the patient's clinical condition.

It must be ensured that the patient has sufficient ventilation

and oxygen supply.

Isocyanates can cause sensitisation of the airways, or asthma-like symptoms (bronchospasms). Delayed breathing

symptoms, including lung oedema, may occur.

People who have shown signs of breathlessness after considerable exposure should remain under observation for

24-48 hours.



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SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray

Alcohol-resistant foam

Dry powder

Carbon dioxide (CO2)

Unsuitable extinguishing

media

: Do NOT use water jet.

Specific hazards during fire

fighting

: May release toxic, irritating and/or corrosive gases.

In case of fire CO, NOx, isocyanates and traces of HCN can

be formed.

Specific extinguishing

methods

Further information

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

Wear an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Use breathing protection against the effects of

fumes/dust/aerosol.

Evacuate personnel to safe areas. Ensure adequate ventilation.

: Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: The product should not be allowed to enter drains, water

courses or the soil.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Ensure adequate ventilation.

Send for recovery or disposal in suitable containers.

Dispose of contaminated material as waste according to

section 13.



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SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Take note of emission threshold.

Avoid formation of aerosol. Do not heat the product.

Ensure that suitable extractors are available on processing

machines.

Handle with care. Avoid inhalation and skin contact. Keep eye wash bottle available on working place.

Avoid release to the environment. Keep out of reach of children.

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are

insufficient to keep the vapor concentration below the workplace limit, wear an adequate respiratory protective

device.

Conditions for safe storage : Do not freeze.

Keep tightly closed in a dry, cool and well-ventilated place.

Protect against light.

Materials to avoid : Keep away from food, drink and animal feedingstuffs.

Never allow product to get in contact with water during

storage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
calcium carbonate	471-34-1	PEL (Total dust)	10 mg/m3	CAL PEL
		PEL (respirable dust fraction)	5 mg/m3	CAL PEL
		TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
limestone	1317-65-3	TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total)	15 mg/m3	OSHA P0
		TWA	5 mg/m3	OSHA P0



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		(Respirable		
		fraction)		
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
Glass, oxide, chemicals	65997-17-3	TWA	1 fibres per cubic centimeter	ACGIH
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA	1 fibres per cubic centimeter	ACGIH
		TWA (fibres)	1 fibres per cubic centimeter	ACGIH
		TWA (fibres)	1 fibres per cubic centimeter	ACGIH
4,4'-methylenediphenyl diisocyanate	101-68-8	С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.2 ppm 0.2 mg/m3	NIOSH REL
		TWA	0.005 ppm	ACGIH
		С	0.02 ppm 0.2 mg/m3	OSHA P0
		TWA	0.005 ppm 0.05 mg/m3	NIOSH REL
		С	0.02 ppm 0.2 mg/m3	NIOSH REL
		PEL	0.005 ppm 0.051 mg/m3	CAL PEL
		TWA	0.005 ppm 0.05 mg/m3	NIOSH REL
quartz (SiO2)	14808-60-7	TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (total dust)	30 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (Respirable fraction)	0.1 mg/m3	OSHA P0
		TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1
		PEL (Respirable dust)	0.05 mg/m3	CAL PEL



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		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0

Engineering measures : Please take care on national and local requirements.

Use local exhaust ventilation or other engineering controls to

minimize exposures.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate risk management

measures (exhaust/ ventilation) are provided or exposure assessment demonstrates that exposures are within

recommended exposure guidelines.

In case of brief exposure or low pollution (exceeding of TLV)

use breathing filter apparatus.

In case of intensive or longer exposure use breathing

apparatus that is independent of circulating air.

Filter type : For short term, use combination charcoal and particulate filter

or equipment with better protection.

Hand protection

Material : Nitrile rubber or equipment with better protection Remarks : Direct contact with the product must be avoided by

organizational measures.

The glove material has to be impermeable and resistant to the product/the substance/the preparation.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

The gloves need to be disposed after the penetration time and replaced by new ones.

Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

For the permanent contact gloves made of the following materials are suitable:

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the Barrier 02-100 underglove from Ansell or other suppliers (penetration time: 480 min).

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
Butyl rubber (minimum thickness: 0.7 mm; penetration time:

15 min)



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As protection from splashes gloves made of the following

materials are suitable:

Nitril (minimum thickness 0.12 mm), Disposable gloves with

long cuffs

After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new

disposable nitrile glove.

Eye protection Tightly fitting safety goggles or equipment with better

protection

Skin and body protection : Protective clothing

> When carrying out activities where unintentional skin contact with the isocyanate-based product may occur (e.g. during maintenance work, or when opening a barrel), wear long-

sleeved protective clothing and gloves.

Protective measures Instantly remove any soiled and impregnated garments.

Wash hands before breaks and immediately after handling the

product.

Avoid contact with the eyes and skin. Store protective clothing separately.

Keep away from food, drink and animal feedingstuffs.

Wear suitable protective clothing.

When carrying out activities where unintentional skin contact with the isocyanate-based product may occur (e.g. during maintenance work, or when opening a barrel), wear long-

sleeved protective clothing and gloves.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquids Color light brown Odor Characteristic Odor Threshold is not determined is not determined pΗ Melting point/freezing point : is not determined is not determined Boiling point/boiling range

Flash point Not applicable is not determined Evaporation rate

Flammability (solid, gas) : Not classified as a flammability hazard

Relative vapor density : is not determined

Density : 1.27 g/cm3

Solubility(ies)



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Water solubility : partly soluble, reacts with water

Partition coefficient: n-

octanol/water

: no data available

Autoignition temperature : is not determined
Thermal decomposition : Not applicable

Explosive properties : Not explosive

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Container can be pressurized by carbon dioxide due to

reaction with humid air and/or water.

Chemical stability : No decomposition if used according to the specifications.

Possibility of hazardous

reactions

: Reacts with alcohols, amines, aqueous acids and alkalis. Mixture reacts with water resulting in evolution of CO2.

Evolution of CO2 in closed containers causes overpressure

and produces a risk of bursting.

Conditions to avoid : No further relevant information available.

Incompatible materials : Amines

Strong acids and strong bases

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as:

Nitrogen oxides (NOx)

Isocyanates

Additional information: Open and release pressure carefully

with pressurised containers.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute inhalation toxicity : Acute toxicity estimate : 72.86 mg/l

Exposure time: 4 Hours
Test atmosphere: dust/mist
Method: Calculation method

Components:

4,4'-methylenediphenyl diisocyanate:

Acute inhalation toxicity : Acute toxicity estimate : 1.5 mg/l

Test atmosphere: dust/mist Method: Expert judgement



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Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration toxicity

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Mobility in soil

Product:

Mobility : Medium: Soil

Remarks: Do not allow product to reach ground water, water

bodies or sewage system.

Other adverse effects

No data available



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : To the best of our knowledge, this product does not meet the

definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended as industry best practice. Consult state, local or provincial authorities for more restrictive

requirements.

Contaminated packaging : Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

Special precautions for user

Not applicable

Domestic regulation

49 CFR

Not regulated as a dangerous good

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Respiratory or skin sensitisation

Specific target organ toxicity (single or repeated exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302

EHS TPQ.



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SARA 313 : The following components are subject to reporting levels established

by SARA Title III, Section 313:

4,4'-methylenediphenyl 101-68-8

diisocyanate

Diphenylmethanediisocyanate, 9016-87-9

polymeric

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

US State Regulations

California Prop 65 , which is/are known to the State of California to cause cancer. For

more information go to www.P65Warnings.ca.gov.

Glass, oxide, chemicals 65997-17-3 quartz (SiO2) 14808-60-7

The ingredients of this product are reported in the following inventories:

TCSI Not in compliance with the inventory

TSCA All substances listed as active on the TSCA inventory

AIIC Not in compliance with the inventory

DSL All components of this product are on the Canadian DSL

ENCS

Not in compliance with the inventory
ISHL

Not in compliance with the inventory
KECI

Not in compliance with the inventory
PICCS

Not in compliance with the inventory
IECSC

Not in compliance with the inventory
Not in compliance with the inventory
NZIOC

Not in compliance with the inventory

CH INV The formulation contains substances listed on the Swiss

Inventory

REACH Not in compliance with the inventory

Not in compliance with the inventory

Not in compliance with the inventory

TECI Not in compliance with the inventory

Inventories LegendTSCA (USA), DSL (Canada), REACH(Europe), AIIC (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

SECTION 16. OTHER INFORMATION

Prepared by: Global Regulatory Office - phone: 1-651-236-5842 - email: msds.request@hbfuller.com



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NFPA:

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Further information

Flammability Instability

Special hazard

HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to the H.B. Fuller Company from its suppliers, and because the H.B. Fuller Company has no control over the conditions of handling and use, the H.B. Fuller Company makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and the H.B. Fuller Company assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Company products to comply with all applicable federal, state and local laws and regulations.