In accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

FORBO EZ-ON 100 Revision Number 1 Revision Date 23-May-2019 Supersedes Date: 23-May-2019

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product Name FORBO EZ-ON 100

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Adhesives

Uses advised against No information available

Details of the supplier of the safety data sheet

Responsible Party

Forbo Flooring Systems 3983 Nashua Dr., Unit 1 Mississauga, ON L4V 1P3 Canada Telephone: 800-268-8108

Emergency telephone number

Chemtrec: 1-800-424-9300

2. Hazards Identification

Classification

Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

Label elements

Danger

Hazard statements

Causes serious eye damage May cause an allergic skin reaction



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Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor

Skin

IF ON SKIN: Wash with plenty of water and soap
If skin irritation or rash occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse

Precautionary Statements - Storage

Not applicable

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Unknown acute toxicity 76 % of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

Substance

Not applicable.

Mixture

	Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Г	N-[3-(trimethoxysilyl)propyl]ethane-1,2-diamine	1760-24-3	1 - 5	-	-
	Silane, ethenyltrimethoxy-	2768-02-7	1 - 5	-	-
Г	Titanium dioxide	13463-67-7	0.1 - 1	-	-

4. First Aid Measures

FIRST AID

General advice Show this safety data sheet to the doctor in attendance.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

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Get medical attention immediately if symptoms occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue

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rinsing. Do not rub affected area. Call a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. May cause an allergic skin

reaction. In the case of skin irritation or allergic reactions see a physician.

Ingestion Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious

person. If swallowed, call a poison control center or physician immediately.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Itching. Rashes. Hives. May cause redness and tearing of the eyes.

Indication of any immediate medical attention and special treatment needed

Note to physicians Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

curing. May cause sensitization by skin contact. Treat symptomatically.

5. Fire-Fighting Measures

FORBO EZ-ON 100

Suitable extinguishing media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable extinguishing media Full water jet.

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2).

Explosion Data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautionsUse personal protective equipment as required. Do not get in eyes, on skin, or on clothing.

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch

damaged packages or spilled material.

Other information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers,

basements or confined areas. See Section 12 for additional Ecological Information.

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Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Contain and collect spillage with

> non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth Methods for cleaning up

or other noncombustible absorbent material. Sweep up and shovel into suitable containers

for disposal. Clean contaminated surface thoroughly.

Clean contaminated objects and areas thoroughly observing environmental regulations. Prevention of secondary hazards

7. Handling and Storage

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Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Handle in accordance with good industrial

hygiene and safety practice. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take off

contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from moisture. Keep/store only in original container. Protect from sunlight. Store in a

well-ventilated place. Keep at temperatures between 41 and 95 °F. Keep away from food,

drink and animal feeding stuffs.

Reference to other sections Section 10: STABILITY AND REACTIVITY

8. Exposure Controls/Personal Protection

Control parameters

. This product contains titanium dioxide in a non-respirable form. Inhalation of titanium **Exposure Limits**

dioxide is unlikely to occur from exposure to this product. Small amounts of methanol (CAS

67-56-1) are formed by hydrolysis and released upon curing.

Chemical name	Alberta	British Columbia	Ontario TWA	Quebec
Silane,			STEL: 10 ppm	
ethenyltrimethoxy-			STEL: 60 mg/m ³	
2768-02-7			-	
Titanium dioxide	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³
13463-67-7		TWA: 3 mg/m ³	_	

OTHER INFORMATION Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

curing.

Appropriate engineering controls

Engineering controls Showers

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

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Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves.

Skin and body protectionWear suitable protective clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Wear suitable gloves and eye/face protection. Handle in accordance with good industrial

hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse. Regular cleaning of equipment, work area and clothing is

recommended.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State
Appearance
Color
Odor
Liquid
viscous
light brown
Characteristic

Odor Threshold No information available

Property Values Remarks • Method

pH No data available

Melting point / freezing point

Boiling point / boiling range
Flash Point 156 °C / 313 °F

Evaporation Rate No data available
Flammability (solid, gas) No tapplicable for liquids .

Flammability Limit in Air

Upper flammability or explosive No data available

limite

Lower flammability or explosive No data available

limits

Vapor Pressure No data available **Vapor Density** No data available **Relative Density** No data available No data available Water Solubility **Solubility in Other Solvents** No data available **Partition coefficient** No data available **Autoignition Temperature** No data available **Decomposition Temperature** No data available **Kinematic Viscosity** No data available **Dynamic Viscosity** No data available

Explosive propertiesNo information available. **Oxidizing properties**No information available.

Other information

Softening Point No information available Molecular Weight No information available

Density 1.02 g/cm³

Bulk Density

No information available

Solid content (%)

No information available

VOC (volatile organic compound) No information available

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10. Stability and Reactivity

Reactivity Product cures with moisture.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents. Water.

Hazardous decomposition products None known based on information supplied.

11. Toxicological Information

Information on likely routes of exposure

Product Information

Inhalation Based on available data, the classification criteria are not met.

Eye contact Causes serious eye damage.

Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

May cause sensitization by skin contact.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. Itching. Rashes. Hives. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

 ATEmix (oral)
 13,655.90 mg/kg

 ATEmix (dermal)
 61,921.50 mg/kg mg/l

ATEmix (inhalation-vapor) 169.20 mg/l

Unknown acute toxicity

76 % of the mixture consists of ingredient(s) of unknown toxicity

71 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 71 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

76 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

76 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (yapor)

76 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

70 70 of the mixture consists of highesterin(c) of anithern acute inhalation textons

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
N-[3-(trimethoxysilyl)propyl]etha	= 2295 mg/kg (Rat)	>2000 mg/Kg (Rat)	LC50 4H (Aerosol)1.5 - 2.44
ne-1,2-diamine			mg/L air
1760-24-3			
Silane, ethenyltrimethoxy-	LD 50 = 7120 -7236 mg/kg (= 3360 μL/kg (Rabbit)	LC50 (4hr) 16.8 mg/l (rat)
2768-02-7	Rat) OECD 401		OECD TG 403

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Titanium dioxide	> 10000 mg/kg (Rat)	-	-
13463-67-7			

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritiation.

Component Inform	nation				
Silane, ethenyltrim	nethoxy- (2768-02-7)				
Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal	0.5 mL	24 hours	Non-irritant

Serious eye damage/eye irritation Causes burns. Causes serious eye damage.

Respiratory or skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicity No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

As Titanium dioxide (13463-67-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition

of uses.

Chemical name	ACGIH	IARC	NTP	OSHA
Titanium dioxide	-	Group 2B	-	X
13463-67-7		•		

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

No information available.

X - Present

STOT - single exposure

Reproductive toxicity

No information available.

STOT - repeated exposureNo information available.

Target Organ Effects Eyes, Skin.

Subchronic Toxicity No information available.

Neurological Effects No information available.

Other Adverse Effects No information available.

Aspiration hazard No information available.

12. Ecological Information

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			Microorganisms	
Silane,	EC 50 (72h) > 957 mg/l	LC50 (96h) = 191 mg/l	-	EC50(48hr) 168.7mg/l
ethenyltrimethoxy-	(Desmodesmus	(Oncorhynchus mykiss)		(Daphnia magna)
2768-02-7	subspicatus)			
	EU Method C.3			

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Persistence and degradability No information available.

Component Information			
Silane, ethenyltrimethoxy- (2768-02-7)			
Method	Exposure time	Value	Results
OECD Test No. 301F: Ready	28 days	BOD	51 % Not readily
Biodegradability: Manometric biodegradable			
Respirometry Test (TG 301 F)			-

Bioaccumulative potential No information available.

Chemical name	Partition coefficient
Silane, ethenyltrimethoxy-	1.1
2768-02-7	

Mobility in soil No information available

Other Adverse Effects No information available.

13. Disposal Considerations

Waste treatment methods

Waste from residues/unused

products

Uncured product should be disposed of as hazardous waste. Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

Contaminated packaging Do not reuse empty containers.

14. Transport Information

IATA Not regulated

Not regulated

Not regulated

Not regulated

15. Regulatory Information

NPRI - National Pollutant Release Inventory

No component is listed on the NPRI above the threshold

European Union

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

SVHC: Substances of Very High Concern for Authorization:

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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International Inventories

TSCA	Listed
DSL	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

16. Other information, including date of preparation of the last revision

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

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Revision noteNo information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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