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# 1. Identification

## 1.1. Product Identifier

Product Name Forbo Sustain 100

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use**Uses advised against
Adhesives and/or sealants.
No information available

### 1.3. Details of the supplier of the safety data sheet

## **Responsible Party**

Forbo Flooring Systems Humbolt Industrial Park 8 Maplewood Drive Hazelton, PA 18202 USA

Phone: +1 (800) 842-7839 (Domestic Toll Free)

### 1.4. Emergency telephone number

Telephone: Chemtrec-(800) 424-9300

# Section 2: HAZARDS IDENTIFICATION

## 2.1. Classification of the substance or mixture

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

## 2.2. Label Elements

### **EMERGENCY OVERVIEW**

## Warning

## Hazard statements

Causes skin irritation Causes serious eye irritation



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Appearance Viscous Physical State Liquid Odor No information available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - 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 soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

# **Precautionary Statements - Storage**

Not applicable

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#### **Precautionary Statements - Disposal**

Not applicable

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Unknown acute toxicity

25 % of the mixture consists of ingredient(s) of unknown toxicity

#### 2.3. Other Information

No information available.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Mixture

#### 3.2 Mixtures

Chemical name	CAS No	Weight-%
Glass, oxide, chemicals	65997-17-3	10 - 30
2-(Dimethylamino)ethanol	108-01-0	1 - 5

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### Section 4: FIRST AID MEASURES

# 4.1. Description of first aid measures

Eye contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also

under the eyelids, for at least 15 minutes. Do not rub affected area. If eye irritation persists:

Get medical advice/attention.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. In the case of skin

irritation or allergic reactions see a physician.

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

breathing. Get medical attention if symptoms occur.

**Ingestion** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. If symptoms persist, call a physician.

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

**Symptoms** May cause skin and eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

4.4. Reference to Other Sections

Reference to other sections Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 11: TOXICOLOGY INFORMATION

### Section 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

## Suitable extinguishing media

Water spray (fog). Carbon dioxide (CO2). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

None known.

#### 5.2. Special hazards arising from the substance or mixture

### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons.

**Explosion Data** 

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

#### 5.3. Advice for firefighters

## Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### Section 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

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

Keep people away from and upwind of spill/leak. Stop leak if you can do it without risk. Use

personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions** Keep people away from and upwind of spill/leak. See Section 12 for additional Ecological

Information.

#### 6.3. Methods and material for containment and cleaning up

Methods for containment Cover with plastic sheet to prevent spreading. 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).

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Methods for cleaning up

Use personal protective equipment as required. Dam up. Soak up with inert absorbent

material. Take up mechanically, placing in appropriate containers for disposal. Clean

contaminated surface thoroughly.

6.4. Reference to other sections

Reference to other sections Section 7: HANDLING AND STORAGE

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 13: DISPOSAL CONSIDERATIONS

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Wash hands thoroughly after handling. Wash contaminated

clothing before reuse.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep from freezing. Keep containers tightly closed in a cool, well-ventilated place. Keep in

properly labeled containers.

Incompatible materials No information available.

7.3. Specific end use(s)

Specific Use(s)

Adhesives and/or sealants.

Other information No information available.

7.4. References to Other Sections

Reference to other sections Section 13: DISPOSAL CONSIDERATIONS

Section 10: STABILITY AND REACTIVITY

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

**Exposure Guidelines** . This product contains substances which in their raw state are powder form, however in

this product they are in a non-respirable form. Inhalation of powder/dust particles is

unlikely to occur from exposure to this product.

Chemical name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Glass, oxide, chemicals	TWA: 1 fiber/cm3	-	-	TWA: 1 fiber/cm3
65997-17-3	respirable fibers: length >5			TWA: 5 mg/m <sup>3</sup>
	μm, aspect ratio >=3:1, as			
	determined by the			
	membrane filter method at			
	400-450X magnification			
	[4-mm objective], using			
	phase-contrast illumination			
	TWA: 5 mg/m³ inhalable			
	particulate matter			

Chemical name	Argentina	Brazil	Chile	Venezuela	

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Glass, oxide, chemicals	TWA: 1 fiber/cm3	TWA: 1 fiber/cm3	-	-
65997-17-3	TWA: 5 mg/m <sup>3</sup>			

#### 8.2. Exposure controls

**Engineering controls**Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined

areas. Use explosion-proof ventilating equipment.

Personal protective equipment [PPE]

Respiratory protection

**Eye/face protection** Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

**Skin and body protection** Wear suitable chemical resistant gloves. The selection of suitable gloves does not only

depend on the material, but also on further marks of quality and various manufacturers. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General hygiene considerations 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. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse. Wash hands thoroughly after handling. Regular cleaning of equipment, work area and clothing is

recommended.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical stateLiquidAppearanceViscousColorBlue

Odor No information available
Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 8.0 - 9.0

Melting point / freezing point

Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)

8.0 - 9.0

No data available
No data available
No information available
Not applicable for liquids .

Flammability Limit in Air

Upper flammability or explosive No information available

limits

Lower flammability or explosive No information available

limits

Vapor pressure
Vapor density
Relative density
Water solubility
No information available
No information available
No information available
No information available

Solubility in Other Solvents

Partition coefficientNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableKinematic viscosityNo information available

Dynamic viscosity No information available

Explosive properties No information available Oxidizing properties No information available

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#### 9.2. Other information

Softening Point
Molecular weight
Solvent content (%)

No information available
No information available
No information available

Solid content (%) 69

**Density** 1.1 g/cm<sup>3</sup>

**VOC Content (%)** 15.4 g/L / 1.35 %

# Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None under normal use conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

None under normal processing.

#### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Keep from freezing.

## 10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons.

# Section 11: TOXICOLOGY INFORMATION

### 11.1. Information on toxicological effects

Product Information No data available

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

**Eye contact** Irritating to eyes. **Skin contact** Irritating to skin.

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

# **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Glass, oxide, chemicals 65997-17-3	>2000 mg/Kg Rat	-	LC50 > 0.691 mg/l (Rattus) 4-Hr
2-(Dimethylamino)ethanol 108-01-0	=1803 mg/kg (Rattus)	= 1220 mg/kg (Oryctolagus cuniculus) = 1370 µL/kg (Oryctolagus cuniculus)	=1641 ppm (Rattus) 4 h

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

SymptomsNo information available.Skin corrosion/irritationIrritating to skin.

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Serious eye damage/eye irritation Severe eye irritation.

Irritation No information available. Corrosivity No information available. Sensitization No information available. Germ cell mutagenicity No information available. No information available. Reproductive toxicity No information available. **Developmental toxicity** Teratogenicity No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. **Chronic Toxicity** No information available.

Target organ effects Skin, Eyes.

**Aspiration hazard** No information available.

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

The components of this product are inextricably bound in a polymer matrix and are not expected to be available as airborne hazards (dust, mist, or spray) under normal condition

of use.

Chemical name	ACGIH	IARC	NTP	OSHA
Glass, oxide, chemicals	-	Group 3	-	-
65997-17-3				

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

# Section 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

	Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
2	2-(Dimethylamino)ethanol	EC50: =35mg/L (72h,	LC50: =81mg/L (96h,		EC50: =98.77mg/L (48h,
L	108-01-0	Desmodesmus subspicatus)	Pimephales promelas)		Daphnia magna)

## 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

#### 12.4. Mobility in soil

No information available.

## Other adverse effects

No information available

## Section 13: DISPOSAL CONSIDERATIONS

# 13.1. Waste treatment methods

Disposal of Wastes It is the responsibility of the waste generator to determine the toxicity and physical

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properties of the material generated to determine the proper waste identification and

disposal methods in compliance with applicable regulations.

Contaminated packaging Dispose of in accordance with federal, state and local regulations

## Section 14: TRANSPORT INFORMATION

**Note:** Keep from freezing

**DOT** Not regulated

<u>IATA</u> Not regulated

<u>IMDG</u> Not regulated

# Section 15: REGULATORY INFORMATION

#### **Global Inventories**

TSCA	Listed
DSL	Not 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.

## **United States of America**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Classification is shown in section 2 of this SDS

### Europe

#### 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)

# Section 16: OTHER INFORMATION

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

No information available

### Key literature references and sources for data

No information available

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Revision note Not applicable.

Training Advice No information available

Further information No information available

#### **Disclaimer**

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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**