

## Safety Data Sheet

### GERFLOR T-111 PART A

Safety Data Sheet dated: 5/14/2015 - version 1

Date of first edition: 5/14/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: GERFLOR T-111 PART A

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Flam. Liq. 3	Flammable liquid and vapour.
Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2A	Causes serious eye irritation.
Skin Sens. 1	May cause an allergic skin reaction.
Carc. 1A	May cause cancer if inhaled.
Repr. 1B	May damage fertility. May damage the unborn child.
STOT RE 1	Causes damage to organs through prolonged or repeated exposure if inhaled.
Aquatic Acute 2	Toxic to aquatic life
Aquatic Chronic 3	Harmful to aquatic life with long lasting effects.

### Label elements

#### Symbols:



Danger

Code	Description
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H350.A	May cause cancer if inhaled.
H360FD	May damage fertility. May damage the unborn child.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.
H401	Toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects.
Code	Description
P201	Obtain special instructions before use.

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241.1	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260.B	Do not breathe dust.
P264.2	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280.I	Wear protective gloves and eye protection.
P303+P361+P353.1	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P321.A	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378.B	In case of fire, use a dry powder fire extinguisher to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

**Ingredient(s) with unknown acute toxicity:**

None

**Hazards not otherwise classified identified during the classification process:**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

N.A.

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

**List of components**

Quantity	Name	Ident. Numb.	Classification
5-10 %	Epoxy Resin	CAS:25068-38-6 EC:500-033-5 Index:603-074-00-8	Eye Irrit. 2A, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411
1-5 %	Dibutyl phthalate	CAS:84-74-2	Aquatic Acute 1, H400; Repr. 1B, H360
1-5 %	Ethylacetate	CAS:141-78-6	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336
1-5 %	Iron oxide	CAS:1309-37-1	Skin Irrit. 2, H315; Eye Irrit. 2B, H320; STOT SE 3, H335
1-5 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A
1-5 %	4-Nonylphenol, branched	CAS:84852-15-3 EC:284-325-5 Index:601-053-00-8	Repr. 2, H361; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302
0.1-1 %	Titanium dioxide	CAS:13463-67-7	Carc. 2, H351

**4. FIRST AID MEASURES**

**Description of first aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

**Most important symptoms/effects, acute and delayed**

Eye irritation

Eye damages

Skin Irritation

Erythema

**Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

**Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

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**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Avoid accumulating electrostatic charge.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Celling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Dibutyl phthalate	OSHA			5					
	ACGIH			5					eye and upper respiratory tract irritation;testicular damage;
Ethylacetate	OSHA			1400	400				
	ACGIH				400				eye and upper respiratory tract irritation;
Iron oxide	OSHA			10					
	OSHA			15					
	OSHA			5					
	ACGIH			5					A4 - Not Classifiable as a Human Carcinogen; pneumoconiosis;
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;
Titanium dioxide	OSHA			15					
	ACGIH			10					A4 - Not Classifiable as a Human Carcinogen;lower respiratory tract irritation;

Appropriate engineering controls: N.A.

#### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: Paste white

Odour: characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: >37,8 °C (100,0 °F)

Flash point: 40 °C (104 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: N.A.

Solubility in water: Soluble

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

#### Other information

Substance Groups relevant properties N.A.

Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

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## 10. STABILITY AND REACTIVITY

### Reactivity

It may generate dangerous reactions (See subsections below)

### Chemical stability

It may generate dangerous reactions (See subsections below)

### Possibility of hazardous reactions

None.

### Conditions to avoid

Avoid accumulating electrostatic charge.

### Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### Hazardous decomposition products

None.

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## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Epoxy Resin	a) acute toxicity	LD50 Oral Rat 11400mg/kg
Dibutyl phthalate	a) acute toxicity	LD50 Skin Rabbit > 20ml/kg LC50 Inhalation Rat > 1568mg/l 4h LD50 Oral Rat = 6300mg/kg
Ethylacetate	a) acute toxicity	LD50 Skin Rabbit > 20ml/kg LC50 Inhalation Mouse = 1500ppm 4h LD50 Oral Rat = 5620mg/kg LD50 Skin Rabbit > 18000,00000mg/kg
Iron oxide	a) acute toxicity	LD50 Oral Rat > 10000mg/kg
Silica Sand	a) acute toxicity	LD50 Oral Rat = 500mg/kg
4-Nonylphenol, branched	a) acute toxicity	LD50 Oral Rat 1300mg/kg LD50 Skin Rabbit > 2000mg/kg
Titanium dioxide	a) acute toxicity	LD50 Oral Rat > 10000mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

#### Substance(s) listed on the IARC Monographs:

Iron oxide	Group 3
Silica Sand	Group 1
Titanium dioxide	Group 2B

**Substance(s) listed as OSHA Carcinogen(s):**

- Silica Sand
- Titanium dioxide

**Substance(s) listed as NIOSH Carcinogen(s):**

- Silica Sand
- Titanium dioxide

**Substance(s) listed on the NTP report on Carcinogens:**

- Silica Sand

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of components with eco-toxicological properties**

Quantity	Component	Ident. Numb.	Ecotox Infos
1-5 %	Dibutyl phthalate	CAS: 84-74-2	LC50 a) Aquatic acute toxicity Fish Pimephales promelas71mg/L 96h IUCLID LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss> 124mg/L 96h EPA LC50 a) Aquatic acute toxicity Fish Lepomis macrochirus138mg/L 96h EPA EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 299mg/L 48h EPA EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus= 12mg/L 72h IUCLID EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata= 4mg/L 96h EPA
1-5 %	Ethylacetate	CAS: 141-78-6	LC50 a) Aquatic acute toxicity Fish Pimephales promelas220mg/L 96h EPA LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss= 484mg/L 96h IUCLID EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 560mg/L 48h EPA
1-5 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h
1-5 %	4-Nonylphenol, branched	CAS: 84852-15-3 - EINECS: 284-325-5 - 67-548-EC: 601-053-00-8	LC50 Fish Pimephales promelas0,135mg/L 96h „Holcombe, G.W., Phipps, G.L., Knuth, M.L. and Felhaber, T. (1984) Environ. Pollut. (Series A) 35, 367-38  LC100 Fish Leuciscus idus1,1mg/L 48h „Huels study, 1988 (unpublished) LC50 Fish Leuciscus idus0,95mg/L 48h „Huels study, 1988 (unpublished)  LOEC Fish Pimephales promelas14µg/L 33d „Chemical Manufacturers Association (1991) Two environmental effects 4-Nonylphenol final reports 1. Chronic toxicity of Nonylphenol to the Mysid, Mysidopsis bahia: EnviroSystems Study Number 8977-CMA 2. Early life stage toxicity of Nonylphenol to the fat NOEC Fish Pimephales promelas7,4µg/L 33d „Chemical Manufacturers Association (1991) Two environmental effects 4-Nonylphenol final reports 1. Chronic toxicity of Nonylphenol to the Mysid, Mysidopsis bahia: EnviroSystems Study Number 8977-CMA 2. Early life stage toxicity of Nonylphenol to the fat EC100 Daphnia Daphnia magna> 400µg/L 48h „Huels report No. DK-522, 1992 (unpublished) EC0 Daphnia Daphnia magna< 100µg/L 48h „Huels report No. DK-522, 1992 (unpublished) EC50 Daphnia Daphnia magna140µg/L 48h „Huels report No. DK-522, 1992 (unpublished) LOEC Daphnia Daphnia magna> 100µg/L 21d „Huels report No. DL-143, 1992 (unpublished)  NOEC Daphnia Daphnia magna0,024mg/L 21d ICI PLC (1991) Nonyl Phenol: Chronic Toxicity to Daphnia Magna Report No: BLS1319/B (Interim) BL4176/B (Final) EC90 Algae Scenedesmus subspicatus (Desmodesmus subspicatus)3,2mg/L 72h Huels study (unpublished) EC10 Algae Scenedesmus subspicatus (Desmodesmus subspicatus)0,5mg/L 72h Huels study (unpublished) EC50 Algae Scenedesmus subspicatus (Desmodesmus subspicatus)1,3mg/L 72h Huels study (unpublished) LC50 a) Aquatic acute toxicity Fish Pimephales promelas= 135mg/L 96h IUCLID  LC50 a) Aquatic acute toxicity Fish Lepomis macrochirus= 1351mg/L 96h EPA EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 14mg/L 48h IUCLID EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata36mg/L 96h EPA EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata16mg/L 72h EPA EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus= 13mg/L 72h IUCLID

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

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**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

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**14. TRANSPORT INFORMATION**

**UN number**

ADR-UN number: 1993

DOT-UN Number: UN1993

IATA-Un number: 1993

IMDG-Un number: 1993

**UN proper shipping name**

ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S.

DOT-Proper Shipping Name: Flammable liquids, n.o.s.

IATA-Technical name: FLAMMABLE LIQUID, N.O.S.

IMDG-Technical name: FLAMMABLE LIQUID, N.O.S.

**Transport hazard class(es)**

ADR-Class: 3

DOT-Hazard Class: 3

IATA-Class: 3

IMDG-Class: 3

**Packing group**

ADR-Packing Group: III

DOT-Packing group: III

IATA-Packing group: III

IMDG-Packing group: III

**Environmental hazards**

Marine pollutant: No

Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): B1, B52, IB3, T4, TP1, TP29

DOT-Label(s): 3

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: 3

ADR-Hazard identification number: 30

ADR-Tunnel Restriction Code: 3 (D/E)

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subrisk: -

IATA-Erg: 3L

IATA-Special Provisions: A3

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subrisk: -

IMDG-Special Provisions: 223 274 955

IMDG-Page: N/A

IMDG-Label: 3

IMDG-EMS: F-E, S-E

IMDG-MFAG: N/A

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

##### TSCA inventory:

All the components are listed on the TSCA inventory

##### TSCA listed substances:

Epoxy Resin	is listed in TSCA	Section 8b
Dibutyl phthalate	is listed in TSCA	Section 8b
Ethylacetate	is listed in TSCA	Section 8b
Iron oxide	is listed in TSCA	Section 8b
Silica Sand	is listed in TSCA	Section 8b
4-Nonylphenol, branched	is listed in TSCA	Section 8b, Section 8a - PAIR
Titanium dioxide	is listed in TSCA	Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

no substances listed

##### Section 304 - Hazardous substances:

Dibutyl phthalate  
Ethylacetate

##### Section 313 - Toxic chemical list:

Dibutyl phthalate

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

Dibutyl phthalate	Reportable quantity:	10	pounds
Ethylacetate	Reportable quantity:	5000	pounds
	Reportable quantity for mixture:	286.115	pounds

#### CAA - Clean Air Act

##### CAA listed substances:

Dibutyl phthalate is listed in CAA Section 112(b) - HAP

#### CWA - Clean Water Act

##### CWA listed substances:

Dibutyl phthalate is listed in CWA Section 311

### USA - State specific regulations

#### California Proposition 65

##### Substance(s) listed under California Proposition 65:

Dibutyl phthalate	Listed as reproductive toxicant
Silica Sand	Listed as carcinogen
Titanium dioxide	Listed as carcinogen

#### Massachusetts Right to know

##### Substance(s) listed under Massachusetts Right to know:

Dibutyl phthalate  
Ethylacetate  
Iron oxide  
Silica Sand  
Titanium dioxide

#### Pennsylvania Right to know

##### Substance(s) listed under Pennsylvania Right to know:

Dibutyl phthalate  
Ethylacetate  
Iron oxide  
Silica Sand  
Titanium dioxide

#### New Jersey Right to know

##### Substance(s) listed under New Jersey Right to know:

Dibutyl phthalate  
Ethylacetate  
Iron oxide  
Silica Sand  
Titanium dioxide

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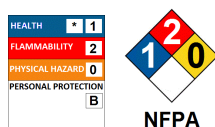
## 16. OTHER INFORMATION

Code	Description
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350.A	May cause cancer if inhaled.
H351	Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routs of exposure cause the hazard>.
H360	May damage fertility or the unborn child <state specific effect if known > <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H360FD	May damage fertility. May damage the unborn child.
H361	Suspected of damaging fertility or the unborn child <state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet dated: 5/14/2015 - version 1

Product code: 2690

#### Additional classification information



HMIS Health: 1 = Slight

HMIS Health - Is health hazard chronic?: Yes  
HMIS Flammability: 2 = Combustible liquid  
HMIS Reactivity: 0 = Minimal  
HMIS P.P.E.: Safety glasses, gloves  
NFPA Health: 1 = Slight  
NFPA Flammability: 2 = Combustible liquid  
NFPA Reactivity: 0 = Minimal  
NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
IMDG: International Maritime Code for Dangerous Goods.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
CLP: Classification, Labeling, Packaging.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
INCI: International Nomenclature of Cosmetic Ingredients.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
DNEL: Derived No Effect Level.  
PNEC: Predicted No Effect Concentration.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
WGK: German Water Hazard Class.  
KSt: Explosion coefficient.

## Safety Data Sheet

### GERFLOR T-111 PART B

Safety Data Sheet dated: 5/26/2015 - version 1

Date of first edition: 5/26/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: Gerflor T-111 PART B

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Flam. Liq. 1	Extremely flammable liquid and vapour.
Skin Corr. 1B	Causes severe skin burns and eye damage.
Eye Dam. 1	Causes serious eye damage.
Skin Sens. 1A	May cause an allergic skin reaction.
Repr. 2	Suspected of damaging fertility or the unborn child if inhaled.
STOT SE 3	May cause drowsiness or dizziness.
STOT RE 2	May cause damage to organs through prolonged or repeated exposure if inhaled.
Aquatic Chronic 3	Harmful to aquatic life with long lasting effects.

### Label elements

#### Symbols:



Danger

Code	Description
H224	Extremely flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H361.A	Suspected of damaging fertility or
H373.A	May cause damage to organs through prolonged or repeated exposure if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P240	Ground/bond container and receiving equipment.
P241.A	Use explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260.1	Do not breathe mist/vapours/spray.
P264.2	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352.A	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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310.A	Immediately call a POISON CENTER.
P312.B	Call a doctor if you feel unwell.
P321.A	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378.B	In case of fire, use a dry powder fire extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

**Ingredient(s) with unknown acute toxicity:**

None

**Hazards not otherwise classified identified during the classification process:**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

N.A.

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

**List of components**

Quantity	Name	Ident. Numb.	Classification
50-60 %	Isophorone diamine	CAS:2855-13-2	Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412; Acute Tox. 4, H302; Acute Tox. 4, H312
30-40 %	Toluene	CAS:108-88-3	Flam. Liq. 2, H225; Repr. 2, H361; Asp. Tox. 1, H304; STOT RE 2, H373; Skin Irrit. 2, H315; STOT SE 3, H336
10-20 %	2,4,6-Tri(dimethylaminomethyl)phenol	CAS:90-72-2	Skin Corr. 1B, H314; Skin Sens. 1A, H317; Aquatic Chronic 3, H412
1-5 %	Bis[(dimethylamino)methyl]phenol	CAS:71074-89-0	Skin Corr. 1B, H314

**4. FIRST AID MEASURES**

**Description of first aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

**Most important symptoms/effects, acute and delayed**

Eye irritation

Eye damages

Skin Irritation

Erythema

**Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

**Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

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**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Avoid accumulating electrostatic charge.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Toluene	OSHA				200				
	ACGIH				20				A4 - Not Classifiable as a Human Carcinogen;female reproductive;pregnancy loss;visual impairment;
	OSHA		C				300		
	EU			192	50	384	100	Indicative	Possibility of significant uptake through the skin;

#### Biological Exposure Index

CAS-No.	Component	Value	UoM	Medium	Biological Indicator	Sampling Period
108-88-3	Toluene	0,02	mg/L	Blood	Toluene	Before last turn of the working week
		0,03	mg/L	Urine	Toluene	End of turn
		0,3	MGGCREAT	Urine	O-Cresol	End of turn

Appropriate engineering controls: N.A.

#### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: amber

Odour: like: Amines

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range:  $\geq 5$  °C (41 °F)

Flash point:  $> 14$  °C (57 °F) Notes: TAG-CC ( Closed Cup )

Evaporation rate:  $< 1.0$

Upper/lower flammability or explosive limits: N.A.

Vapour density:  $> 1.0$

Vapour pressure: 30.00 (kPa 50°C)

Relative density: N.A.

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

#### Other information

Substance Groups relevant properties N.A.

Miscibility: N.A.

Fat Solubility: N.A.

Conductivity: N.A.

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## 10. STABILITY AND REACTIVITY

### Reactivity

It may generate dangerous reactions (See subsections below)

**Chemical stability**

It may generate dangerous reactions (See subsections below)

**Possibility of hazardous reactions**

None.

**Conditions to avoid**

Avoid accumulating electrostatic charge.

**Incompatible materials**

Avoid contact with combustible materials. The product could catch fire.

**Hazardous decomposition products**

None.

**11. TOXICOLOGICAL INFORMATION****Information on toxicological effects****Toxicological information of the mixture:**

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

**Toxicological information on main components of the mixture:**

Isophorone diamine	a) acute toxicity	LD50 Oral Rat = 1030mg/kg
Toluene	a) acute toxicity	LD50 Skin Rabbit = 8390mg/kg LC50 Inhalation Rat = 125mg/l 4h LD50 Oral Rat = 636mg/kg LD50 Skin Rat = 12124,00000ml/kg LC50 Inhalation Rat > 26700,00000ppm 1h
2,4,6-Tri(dimethylaminomethyl) phenol	a) acute toxicity	LD50 Skin Rat = 1280mg/kg LD50 Oral Rat = 1000mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

**Substance(s) listed on the IARC Monographs:**

Toluene Group 3

**Substance(s) listed as OSHA Carcinogen(s):**

None

**Substance(s) listed as NIOSH Carcinogen(s):**

None

**Substance(s) listed on the NTP report on Carcinogens:**

None

**12. ECOLOGICAL INFORMATION****Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of components with eco-toxicological properties**

Quantity	Component	Ident. Numb.	Ecotox Infos
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50-60 %	Isophorone diamine	CAS: 2855-13-2	EC50 a) Aquatic acute toxicity Daphnia Daphnia magna=14,60000mg/L 48h EPA EC50 a) Aquatic acute toxicity Daphnia magna= 42,00000mg/L 24hr EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus= 37mg/L 72h IUCLID EC50 a) Aquatic acute toxicity Algae idus= 110,00000mg/L 96h
30-40 %	Toluene	CAS: 108-88-3	LC50 a) Aquatic acute toxicity Fish Pimephales promelas1522mg/L 96h EPA LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss589mg/L 96h EPA LC50 a) Aquatic acute toxicity Fish Lepomis macrochirus11mg/L 96h EPA LC50 a) Aquatic acute toxicity Fish Oryzias latipes= 54mg/L 96h EPA LC50 a) Aquatic acute toxicity Fish Poecilia reticulata= 282mg/L 96h EPA EC50 a) Aquatic acute toxicity Daphnia Daphnia magna546mg/L 48h EPA EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata> 433mg/L 96h IUCLID EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata= 125mg/L 72h EPA

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

**14. TRANSPORT INFORMATION**

**UN number**

- ADR-UN number: 2924
- DOT-UN Number: UN2924
- IATA-Un number: 2924
- IMDG-Un number: 2924

**UN proper shipping name**

- ADR-Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Toluene - Isophorone diamine)
- DOT-Proper Shipping Name: Flammable liquids, corrosive, n.o.s. (Toluene - Isophorone diamine)
- IATA-Technical name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Toluene - Isophorone diamine)
- IMDG-Technical name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Toluene - Isophorone diamine)

**Transport hazard class(es)**

- ADR-Class: 3
- DOT-Hazard Class: 3
- IATA-Class: 3
- IMDG-Class: 3

**Packing group**

- ADR-Packing Group: II
- DOT-Packing group: II
- IATA-Packing group: II
- IMDG-Packing group: II

**Environmental hazards**

- Marine pollutant: No
- Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

- Department of Transportation (DOT):
- DOT-Special Provision(s): IB2, T11, TP2, TP27
- DOT-Label(s): 3,8
- DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A  
 DOT-Passenger Aircraft: N/A  
 DOT-Bulk: N/A  
 DOT-Non-Bulk: N/A  
 Road and Rail (ADR-RID):  
 ADR exempt: No  
 ADR-Label: 3 + 8  
 ADR-Hazard identification number: 338  
 ADR-Tunnel Restriction Code: 2 (D/E)  
 Air (IATA):  
 IATA-Passenger Aircraft: 352  
 IATA-Cargo Aircraft: 363  
 IATA-Label: 3 + 8  
 IATA-Subrisk: 8  
 IATA-Erg: 3CH  
 IATA-Special Provisions: A3 A803  
 Sea (IMDG):  
 IMDG-Stowage Code: Category B  
 IMDG-Stowage Note: Clear of living quarters.  
 IMDG-Subrisk: 8  
 IMDG-Special Provisions: 274  
 IMDG-Page: N/A  
 IMDG-Label: 3 + 8  
 IMDG-EMS: F-E, S-C  
 IMDG-MFAG: N/A

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

##### TSCA Inventory:

All the components are listed on the TSCA inventory

##### TSCA listed substances:

Isophorone diamine	is listed in TSCA	Section 8b
Toluene	is listed in TSCA	Section 8b
2,4,6-Tri(dimethylaminomethyl)phenol	is listed in TSCA	Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

no substances listed

##### Section 304 - Hazardous substances:

Toluene

##### Section 313 - Toxic chemical list:

Toluene

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

Toluene	Reportable quantity:	1000	pounds
	Reportable quantity for mixture:	2789.066	pounds

#### CAA - Clean Air Act

##### CAA listed substances:

Toluene	is listed in CAA	Section 112(b) - HAP, Section 112(b) - HON
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#### CWA - Clean Water Act

##### CWA listed substances:

Toluene	is listed in CWA	Section 307, Section 311
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### USA - State specific regulations

## California Proposition 65

### Substance(s) listed under California Proposition 65:

Toluene Listed as reproductive toxicant

## Massachusetts Right to know

### Substance(s) listed under Massachusetts Right to know:

Toluene

## Pennsylvania Right to know

### Substance(s) listed under Pennsylvania Right to know:

Toluene

## New Jersey Right to know

### Substance(s) listed under New Jersey Right to know:

Isophorone diamine

Toluene

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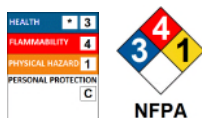
## 16. OTHER INFORMATION

Code	Description
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child <state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H361.A	Suspected of damaging fertility or the unborn child if inhaled.
H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H373.A	May cause damage to organs through prolonged or repeated exposure if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet dated: 5/26/2015 - version 1

Product code: 1953

### Additional classification information



HMIS Health: 3 = Serious

HMIS Health - Is health hazard chronic?: Yes

HMIS Flammability: 4 = Flammable gas or extremely flammable liquid

HMIS Reactivity: 1 = Slight

HMIS P.P.E.: Safety glasses, gloves, chemical apron

NFPA Health: 3 = Serious

NFPA Flammability: 4 = Flammable gas or extremely flammable liquid

NFPA Reactivity: 1 = Slight

NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.  
This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
IMDG: International Maritime Code for Dangerous Goods.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
CLP: Classification, Labeling, Packaging.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
INCI: International Nomenclature of Cosmetic Ingredients.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
DNEL: Derived No Effect Level.  
PNEC: Predicted No Effect Concentration.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
WGK: German Water Hazard Class.  
KSt: Explosion coefficient.