

## Safety Data Sheet PLANISEAL VS PART A

Safety Data Sheet dated: 3/16/2016 - version 3 Date of first edition: 5/26/2015

## **1. IDENTIFICATION**

Product identifier Mixture identification: Trade name: PLANISEAL VS PART A

Recommended use of the chemical and restrictions on use

Recommended use: Epoxy resins

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**

Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2A	Causes serious eye irritation.
Skin Sens. 1B	May cause an allergic skin reaction.
Aquatic Chronic 2	Toxic to aquatic life with long lasting effects.

## Label elements

Symbols:



Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
Code	Description
P261.1	Avoid breathing mist/vapours/spray.
P264.2	Wash skin thoroughly after handling.
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.
P302+P352.A	IF ON SKIN: Wash with plenty of 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.
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.
P391	Collect spillage.
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 %	Bisphenol A epoxy resin	CAS:25085-99-8	Skin Sens. 1B; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Aquatic Chronic 2, H411
20-30 %	Alkyl epoxy resin	CAS:68609-97-2	Skin Irrit. 2, H315; Skin Sens. 1, H317
10-20 %	Phenol, polymer with formaldehyde, glycidyl ether; molecular weight <= 700	CAS:28064-14-4	Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411
5-10 %	Diisopropylnaphthalene	CAS:38640-62-9	Asp. Tox. 1, H304; Aquatic Chronic 1, H410

## 4. FIRST AID MEASURES

## Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Obtain medical attention if skin related symptoms persist.

Remove contaminated clothing immediately and dispose of 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 opthalmologist 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:

Remove casualty to fresh air and keep warm and at rest.

### 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).

### **5. FIRE-FIGHTING MEASURES**

Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

## 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.

## **6. ACCIDENTAL RELEASE MEASURES**

## Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

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.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

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

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.

Contamined 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.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Control parameters

No Data Available

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:

N.A.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state: Liquid Appearance and colour: Paste cream Odour: like: Hydrocarbons, aromatic Odour threshold: N.A. pH: 9.00 Melting point / freezing point: N.A. Initial boiling point and boiling range: N.A. Flash point: >100 °C (212 °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: 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.

### **10. STABILITY AND REACTIVITY**

#### Reactivity

Stable under normal conditions

Chemical stability

Data not Available.

## Possibility of hazardous reactions

None.

#### **Conditions to avoid**

Stable under normal conditions.

### Incompatible materials

None in particular.

### 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:

Phenol, polymer with formaldehyde, glycidyl ether; molecular weight <= 700	a) acute toxicity	LD50 Skin Rabbit > 5000,00000mg/kg
		LD50 Oral Rat > 11400,00000mg/kg
DiisopropyInaphthalene	a) acute toxicity	LD50 Skin Rat > 4500mg/kg
		LC50 Inhalation Rat > 5,64000mg/l 4h
		LD50 Oral Rat = 3900mg/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:

None

### 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	Ider	nt. Numb.	Ecotox Infos
Quantity 5-10 %	Diisopropylnaphthalene		6: 38640-62-9	LC50 a) Aquatic acute toxicity Fish Cyprinus carpio> 1000mg/L 96h
5-10 /0	Disopropyinapininalene		5. 500+0-02-5	LC50 a) Aquatic acute toxicity Fish Oryzias latipes> 1000mg/L 96h
Persist	ence and degradab	oility		
	N.A.			
Bioaccu	umulative potentia	I		
	N.A.			
Mobility	y in soil			
	N.A.			
Other a	adverse effects			
other a	N.A.			
13. DI	SPOSAL CONSID	ERATIONS		
Waste	treatment methods	5		
Waste n	nust be handled in ac	ccordance with all fe	ederal, state,	provincial, and local regulations. Consult authorities before disposal.
14. TR	ANSPORT INFOR	MATION		
UN nun	nber			
	ADR-UN number: 3			
	DOT-UN Number: U IATA-Un number: 3			
	IATA-Un number: . IMDG-Un number:			
UN pro	per shipping name			
010		e: ENVIRONMENTA		OUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A epoxy resin - Phenol, polymer
		with formaldehy	de, glycidyl e	ther; molecular weight <= 700) dous substance, liquid, n.o.s. (Bisphenol A epoxy resin - Phenol, polymer with
		formaldel	nyde, glycidy	ether; molecular weight <= 700) DOUS SUBSTANCE, LIQUID, N.O.S (Bisphenol A epoxy resin - Phenol, polymer
		with formaldeh	yde, glycidyl	ether; molecular weight <= 700) DOUS SUBSTANCE, LIQUID, N.O.S (Bisphenol A epoxy resin - Phenol, polymer
_		with formalder		ether; molecular weight <= 700)
Transp	ort hazard class(es ADR-Class: 9	5)		
	DOT-Hazard Class:	9		
	IATA-Class: 9			
	IMDG-Class: 9			
Packing				
Packing	<b>g group</b> ADR-Packing Group	· 111		
	DOT-Packing group			
	IATA-Packing group			
	IMDG-Packing grou			
Enviror	nmental hazards	•		
	Marine pollutant: Y	'es		
	Environmental Pollu	ıtant: N.A.		
Transp		ng to Annex II of	MARPOL73	78 and the IBC Code
Cussial	N.A.			
-	l precautions nent of Transportatio			
Departi	DOT-Special Provisi		335, IB3, T₄	I, TP1
	DOT-Label(s): 9			
	DOT-Symbol: N/A			
	DOT-Cargo Aircraft			
	DOT-Passenger Airc	craft: N/A		
	DOT-Bulk: N/A DOT-Non-Bulk: N/A			
	nd Rail (ADR-RID):			
Road an				
Road an	ADR exempt: No			
Road an	ADR exempt: No ADR-Label: 9			
Road an		cation number: 90	I	
Road an	ADR-Label: 9 ADR-Hazard identifi	cation number: 90 Production Name	PLANISEAL	VS PART A Page n. 5 of 8

ADR-Tunnel Restriction Code: 3 (E) Air (IATA): IATA-Passenger Aircraft: 964 IATA-Cargo Aircraft: 964 IATA-Label: 9 IATA-Subrisk: -IATA-Erg: 9L IATA-Special Provisions: A97 A158 Sea (IMDG): IMDG-Stowage Code: Category A IMDG-Stowage Note: -IMDG-Subrisk: -IMDG-Special Provisions: 274 335 IMDG-Page: N/A IMDG-Label: 9 IMDG-EMS: F-A, S-F 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:

Bisphenol A epoxy resin	is listed in TSCA	Section 8b
Alkyl epoxy resin	is listed in TSCA	Section 8b
Phenol, polymer with formaldehyde, glycidyl ether; molecular weight <= 700	is listed in TSCA	Section 8b
Diisopropylnaphthalene	is listed in TSCA	Section 8b

### SARA - Superfund Amendments and Reauthorization Act

### Section 302 - Extremely Hazardous Substances:

no substances listed

## Section 304 - Hazardous substances:

no substances listed

### Section 313 - Toxic chemical list:

no substances listed

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

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

no substances listed

### CAA - Clean Air Act

### CAA listed substances:

no substances listed

### **CWA - Clean Water Act**

CWA listed substances:

no substances listed

### **USA - State specific regulations**

#### **California Proposition 65**

Substance(s) listed under California Proposition 65:

no substances listed

#### **Massachusetts Right to know**

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

#### Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

no substances listed

#### New Jersey Right to know

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

no substances listed

## **Canada- Federal regulations**

#### **DSL - Domestic Substances List**

**DSL Inventory:** 

All the substances are listed in the DSL.

#### **NDSL - Non Domestic Substances List**

NDSL Inventory:

no substances listed

#### **NPRI - National Pollutant Release Inventory**

#### Substances listed in NPRI:

no substances listed

## **16. OTHER INFORMATION**

#### Code Description

- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

Safety Data Sheet dated: 3/16/2016 - version 3

Product code: 2813

### Additional classification information



HMIS Health: 1 = Slight HMIS Health - Is health hazard chronic?: Yes HMIS Flammability: 1 = Combustible if heated HMIS Reactivity: 0 = Minimal HMIS P.P.E.: Safety glasses, gloves NFPA Health: 1 = Slight NFPA Flammability: 1 = Combustible if heated 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.

## Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- 2. HAZARDS IDENTIFICATION

- 3. COMPOSITION/INFORMATION ON INGREDIENTS

- 11. TOXICOLOGICAL INFORMATION

- 15. REGULATORY INFORMATION

- 16. OTHER INFORMATION



## Safety Data Sheet PLANISEAL VS PART B

Safety Data Sheet dated: 2/26/2016 - version 2 Date of first edition: 5/26/2015

## **1. IDENTIFICATION**

**Product identifier** Mixture identification:

Trade name: PLANISEAL VS PART B

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

Recommended use: Hardener for epoxy products

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**

Acute Tox. 4	Harmful if swallowed.
Acute Tox. 4	Harmful in contact with skin.
Skin Corr. 1A	Causes severe skin burns and eye damage.
Eye Dam. 1	Causes serious eye damage.
Skin Sens. 1A	May cause an allergic skin reaction.
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:



Code	Description
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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
<b>Code</b> P260.1	Description Do not breathe mist/vapours/spray.
P260.1	Do not breathe mist/vapours/spray.
P260.1 P264.2	Do not breathe mist/vapours/spray. Wash skin thoroughly after handling.
P260.1 P264.2 P270	Do not breathe mist/vapours/spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product.

P301+P312.A	IF SWALLOWED: Call a POISON CENTER if you feel unwell.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353.1	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.
P310.B	Immediately call a doctor.
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.
P362+P364	Take off contaminated clothing and wash it before reuse.
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
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Quantity	Name	ldent. Numb.	Classification
30-40 %	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
20-30 %	Benzyl alcohol	CAS:100-51-6	Acute Tox. 4, H302; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319
10-20 %	2,4,6-Tri(dimethylaminomethyl)phenol	CAS:90-72-2	Skin Corr. 1B, H314; Skin Sens. 1A, H317; Aquatic Chronic 3, H412
5-10 %	Bisphenol A epoxy resin	CAS:25085-99-8	Skin Sens. 1B; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Aquatic Chronic 2, H411
5-10 %	1,5-Pentanediamine, 2-methyl-	CAS:15520-10-2	Acute Tox. 4, H332; Acute Tox. 4, H302; Skin Corr. 1A, H314; Flam. Liq. 4, H227; Acute Tox. 4, H312; Eye Dam. 1, H318; STOT SE 3, H335
5-10 %	Epoxy curing agent	CAS:135108-88-2	Acute Tox. 4, H302; Skin Corr. 1B, H314; STOT RE 2, H373
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 medical attention if skin related symptoms persist.

Remove contaminated clothing immediately and dispose of 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 opthalmologist immediately.

Protect uninjured eye.

## In case of Ingestion:

Give nothing to eat or drink.

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).

## **5. FIRE-FIGHTING MEASURES**

### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

#### 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.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

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.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

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

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.

Contamined 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.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

No Data Available

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: brown Odour: like: Amines Odour threshold: N.A. pH: 11.00 Melting point / freezing point: N.A. Initial boiling point and boiling range: N.A. Flash point: >100 °C (212 °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.

## **10. STABILITY AND REACTIVITY**

#### Reactivity

Stable under normal conditions

### **Chemical stability**

Data not Available.

## Possibility of hazardous reactions

None.

## **Conditions to avoid**

Stable under normal conditions.

## Incompatible materials

None in particular.

## 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
Doort deskel		
Benzyl alcohol	a) acute toxicity	LD50 Skin Rabbit = 2000,00000mg/kg
		LC50 Inhalation Rat = 8,80000mg/l 4h
		LD50 Oral Rat = 1230mg/kg
2,4,	a) acute toxicity	LD50 Skin Rat = 1280mg/kg
6-Tri(dimethylaminomethyl) phenol		
phono		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:

None

#### 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
30-40 %	Isophorone diamine	CAS: 2855-13-2	EC50 a) Aquatic acute toxicity Daphnia Daphnia magna14,60000mg/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
20-30 %	Benzyl alcohol	CAS: 100-51-6	LC50 a) Aquatic acute toxicity Fish Pimephales promelas= 460mg/L 96h EPA
			LC50 a) Aquatic acute toxicity Fish Lepomis macrochirus= 10mg/L 96h EPA
			EC50 a) Aquatic acute toxicity Daphnia water flea= 23mg/L 48h

## 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: 2735 DOT-UN Number: UN2735 IATA-Un number: 2735 IMDG-Un number: 2735

# UN proper shipping name

ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Isophorone diamine -

2,4,6-Tri(dimethylaminomethyl)phenol) DOT-Proper Shipping Name: Amines, liquid, corrosive, n.o.s., or Polyamines, liquid, corrosive, n.o.s. (Isophorone diamine - 2,4, 6-Tri(dimethylaminomethyl)phenol) IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Isophorone diamine -2,4,6-Tri(dimethylaminomethyl)phenol) IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Isophorone diamine -2,4,6-Tri(dimethylaminomethyl)phenol) Transport hazard class(es) ADR-Class: 8 DOT-Hazard Class: 8 IATA-Class: 8 IMDG-Class: 8 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): B2, IB2, T11, TP1, TP27 DOT-Label(s): 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-Label: 8 ADR-Hazard identification number: 80 ADR-Tunnel Restriction Code: 2 (E) Air (IATA): IATA-Passenger Aircraft: 851 IATA-Cargo Aircraft: 855 IATA-Label: 8 IATA-Subrisk: -IATA-Erg: 8L IATA-Special Provisions: A3 A803 Sea (IMDG): IMDG-Stowage Code: Category A IMDG-Stowage Note: "Separated from" acids. IMDG-Subrisk: -IMDG-Special Provisions: 274 IMDG-Page: N/A IMDG-Label: N/A IMDG-EMS: F-A, S-B 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
Benzyl alcohol	is listed in TSCA	Section 8b
2,4,6-Tri(dimethylaminomethyl)phenol	is listed in TSCA	Section 8b
Bisphenol A epoxy resin	is listed in TSCA	Section 8b
1,5-Pentanediamine, 2-methyl-	is listed in TSCA	Section 8b
Epoxy curing agent	is listed in TSCA	Section 8b

### SARA - Superfund Amendments and Reauthorization Act

### Section 302 - Extremely Hazardous Substances:

no substances listed

#### Section 304 - Hazardous substances:

no substances listed

### Section 313 - Toxic chemical list:

no substances listed

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

### Substance(s) listed under CERCLA:

no substances listed

### CAA - Clean Air Act

CAA listed substances:

Benzyl alcohol

is listed in CAA

Section 112(b) - HON

## **CWA - Clean Water Act**

CWA listed substances:

no substances listed

## **USA - State specific regulations**

#### **California Proposition 65**

Substance(s) listed under California Proposition 65:

no substances listed

## Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know: Benzyl alcohol

### Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Benzyl alcohol

### New Jersey Right to know

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

Isophorone diamine

## **Canada- Federal regulations**

#### **DSL - Domestic Substances List**

#### DSL Inventory:

All the substances are listed in the DSL.

### **NDSL - Non Domestic Substances List**

#### NDSL Inventory:

no substances listed

## NPRI - National Pollutant Release Inventory

#### Substances listed in NPRI:

no substances listed

## **16. OTHER INFORMATION**

10. OTHER INFORMATION				
Code	Description			
H227	Combustible liquid.			
H302	Harmful if swallowed.			
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.			
H319	Causes serious eye irritation.			
H332	Harmful if inhaled.			
H335	May cause respiratory irritation.			
H373	May cause damage to organs through prolonged or repeated exposure .			
H373.A	May cause damage to organs through prolonged or repeated exposure if inhaled.			
H411	Toxic to aquatic life with long lasting effects.			
H412	Harmful to aquatic life with long lasting effects.			

Safety Data Sheet dated: 2/26/2016 - version 2

Product code: 2814

## Additional classification information



HMIS Health: 3 = Serious HMIS Health - Is health hazard chronic?: No HMIS Flammability: 1 = Combustible if heated HMIS Reactivity: 0 = Minimal HMIS P.P.E.: Safety glasses, gloves, chemical apron NFPA Health: 3 = Serious NFPA Flammability: 1 = Combustible if heated 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.

 $\label{eq:CLP:Classification, Labeling, Packaging.}$ 

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.

## Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 11. TOXICOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION