# Safety Data Sheet PLANIBOND 3C PART A

Safety Data Sheet dated: 06/16/2021 - version 5

Date of first edition: 05/26/2015



## 1. IDENTIFICATION

#### **Product identifier**

Mixture identification:

Trade name: PLANIBOND 3C PART A

Trade code: 9019640

Recommended use of the chemical and restrictions on use

Recommended use: Epoxy resins Restrictions on use: Closed areas

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

Responsible: RDProductSafety@mapei.com

**Emergency 24 hour numbers:** 

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 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. 1 May cause an allergic skin reaction.

Aquatic Acute 2 Toxic to aquatic life.

Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

**Label elements** 

#### Hazard pictograms and Signal Word



Warning

# **Hazard statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P261 Avoid breathing mist/vapours/spray.
P264 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 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 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.

Print date 11/10/2022 Production Name PLANIBOND 3C PART A Page n. 1 of 8

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P501 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**

Not available

#### **Mixtures**

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

#### List of components

Concentra tion (% w/w)	Name	Ident. Numb.	Classification	Registration Number
25-50 %	(chloromethyl)oxirane, 4,4'-(1-methylethylidene)bisphenol copolymer; reaction product: bisphenol-A-(epichlorhydrin)	EC:500-033-5	Eye Irrit. 2A, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 2, H401; Aquatic Chronic 2, H411	
10-20 %	formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol;		Skin Irrit. 2, H315; Aquatic Chronic 2, H411; Skin Sens. 1, H317	

#### 4. FIRST AID MEASURES

## **Description of first aid measures**

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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).

Treatment:

(see paragraph 4.1)

## 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.

Print date 11/10/2022 Production Name PLANIBOND 3C PART A Page n. 2 of 8

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not available Oxidizing properties: Not available

## 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.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

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

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

Retain contaminated washing water and dispose it.

#### 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.

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: Not available

Keep away from food, drink and feed.

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: Not available

# 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:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness  $\geq$ =0,35mm; breakthrough time  $\geq$ =480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

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

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Not available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state: Liquid

Print date 11/10/2022 Production Name PLANIBOND 3C PART A Page n. 3 of 8

Appearance and colour: Not Relevant

Odour: Characteristic

Odour threshold: No data available

pH: No data available

Melting point / freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: 100 °C (212 °F) Evaporation rate: No data available

Upper/lower flammability or explosive limits: No data available

Vapour density: No data available Vapour pressure: No data available Relative density: 1.08 g/cm3 Solubility in water: insoluble Solubility in oil: No data available

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available Oxidizing properties: No data available Solid/gas flammability: No data available

#### Other information

Substance Groups relevant properties No data available

Miscibility: No data available Fat Solubility: No data available Conductivity: No data available

#### 10. STABILITY AND REACTIVITY

#### Reactivity

Stable under normal conditions

## Chemical stability

Data not available.

## Possibility of hazardous reactions

#### 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 product:

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 of the main substances found in the product:

a) acute toxicity

(chloromethyl)oxirane, 4,4'-(1methylethylidene) bisphenol copolymer; reaction product: bisphenol-A-

LD50 Oral Rat 11400 mg/kg

LD50 Oral Rat = 11400 mg/kg

formaldehyde, polymer a) acute toxicity

with 2-

(chloromethyl)oxirane

and phenol;

(epichlorhydrin)

LD50 Oral Rat > 2 g/kg

Print date 11/10/2022 Production Name PLANIBOND 3C PART A 4 of 8 Page n.

## 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

Toxicological kinetics, metabolism and distribution information

- 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 Eco-Toxicological properties of the product

No data available

## Persistence and degradability

Not available

## **Bioaccumulative potential**

Not available

## Mobility in soil

Not available

## Other adverse effects

Not available

### 13. DISPOSAL CONSIDERATIONS

#### **Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

# Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

# Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

# Special precautions:

Print date 11/10/2022 Production Name PLANIBOND 3C PART A Page n. 5 of 8

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

#### **UN** number

ADR-UN number: 3082 DOT-UN Number: UN3082 IATA-Un number: 3082 IMDG-Un number: 3082

#### **UN** proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((chloromethyl)oxirane, 4,4'-(1-

methylethylidene)bisphenol copolymer; reaction product: bisphenol-A-(epichlorhydrin) - formaldehyde,

polymer with 2-(chloromethyl)oxirane and phenol;)

DOT-Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. ((chloromethyl)oxirane, 4,4'-(1-

methylethylidene)bisphenol copolymer; reaction product: bisphenol-A-(epichlorhydrin) - formaldehyde,

polymer with 2-(chloromethyl)oxirane and phenol;)

IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((chloromethyl)oxirane, 4,4'-(1-

 $methylethylidene) bisphenol\ copolymer;\ reaction\ product:\ bisphenol\ -A\ -(epichlorhydrin)\ -\ formaldehyde,$ 

polymer with 2-(chloromethyl)oxirane and phenol;)

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((chloromethyl)oxirane, 4,4'-(1-

methylethylidene)bisphenol copolymer; reaction product: bisphenol-A-(epichlorhydrin) - formaldehyde,

polymer with 2-(chloromethyl)oxirane and phenol;)

## Transport hazard class(es)

ADR-Class: 9

DOT-Hazard Class: 9

IATA-Class: 9
IMDG-Class: 9

## **Packing group**

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

#### **Environmental hazards**

Marine pollutant: Yes

Environmental Pollutant: Not available

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

Not available

## **Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): 8, 146, 173, 335, IB3, T4, TP1, TP29

DOT-Label(s): 9
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: 9

ADR-Hazard identification number: 90

ADR-Transport category (Tunnel restriction code): 3 (-)

Air (IATA):

IATA-Passenger Aircraft: 964 IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisioning: A97 A158 A197

Sea ( IMDG ) :

Print date 11/10/2022 Production Name PLANIBOND 3C PART A Page n. 6 of 8

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274 335 969

IMDG-Page: N/A IMDG-Label: N/A 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:**

(chloromethyl)oxirane, 4,4'-(1- is listed in TSCA Section 8b methylethylidene)bisphenol copolymer; reaction product: bisphenol-A-(epichlorhydrin)

formaldehyde, polymer with 2- is listed in TSCA Section 8b (chloromethyl)oxirane and phenol;

## **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:

No substances listed

# 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 (Domestic Substances List)**

All the substances are listed in the DSL.

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

Print date 11/10/2022 Production Name PLANIBOND 3C PART A Page n. 7 of 8

#### NDSL (Non Domestic Substances List)

No substances listed

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

## NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

#### **16. OTHER INFORMATION**

Safety Data Sheet dated: 6/16/2021 - version 5

#### Additional classification information

NFPA Health: 1 = Slight

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = MinimalNFPA 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.

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

#### 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
- 6. ACCIDENTAL RELEASE MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 14. TRANSPORT INFORMATION
- 16. OTHER INFORMATION

11/10/2022 PLANIBOND 3C PART A Print date Production Name Page n. 8 of 8



# Safety Data Sheet PLANIBOND 3C PART B

Safety Data Sheet dated: 06/16/2021 - version 6

Date of first edition: 05/26/2015



## 1. IDENTIFICATION

#### **Product identifier**

Mixture identification:

Trade name: PLANIBOND 3C PART B

Trade code: 9019641

Recommended use of the chemical and restrictions on use

Recommended use: Hardener for epoxy products

Restrictions on use: Not available

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

Responsible: RDProductSafety@mapei.com

**Emergency 24 hour numbers:** 

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION







## Classification of the chemical

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.

Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

#### **Label elements**

## Hazard pictograms and Signal Word



Danger

#### **Hazard statements**

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

## **Precautionary statements**

P260 Do not breathe mist/vapours/spray.
P264 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.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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 Immediately call a POISON CENTER.

P321 Specific treatment (see supplementary instructions on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Print date 11/10/2022 Production Name PLANIBOND 3C PART B Page n. 1 of 9

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.
P405 Store locked up.

P501 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**

Not available

#### **Mixtures**

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

#### List of components

Concentra tion (% w/w)	Name	Ident. Numb.	Classification	Registration Number
10-20 %	aliphatic polyamine; Amines, polyethylenepoly-, triethylenetetramine fraction	CAS:90640-67-8	Acute Tox. 4, H312; Acute Tox. 4, H302; Eye Dam. 1, H318; Skin Corr. 1A, H314; Skin Sens. 1, H317; Aquatic Chronic 1, H410	
2.5-5 %	2-propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine;		Acute Tox. 4, H332; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317	
1-2.5 %	1,3-benzenedimethanamine; m- phenylenebis(methylamine)	CAS:1477-55-0	Acute Tox. 4, H332; Acute Tox. 4, H302; Skin Corr. 1A, H314; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	
1-2.5 %	isophorone diamine; 3- aminomethyl-3,5,5- trimethylcyclohexylamine	CAS:2855-13-2	Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412; Acute Tox. 4, H302; Acute Tox. 4, H312	

#### 4. FIRST AID MEASURES

## Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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).

Treatment:

(see paragraph 4.1)

Print date 11/10/2022 Production Name PLANIBOND 3C PART B Page n. 2 of 9

#### **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: Not available

Explosive properties: Not available Oxidizing properties: Not available

## 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.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

## Methods and material for containment and cleaning up

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

Retain contaminated washing water and dispose it.

#### 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.

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: Not available

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

## 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
1,3- benzenedimethanamine; m- phenylenebis (methylamine)	ACGIH		С			0,1		
	ACGIH		С				0,018	
	MAK	AUSTRIA		0,1		0,1		
	MAK	SWITZERLAND		0,1				
	MAK	AUSTRIA	С			0,1		

Print date 11/10/2022 Production Name PLANIBOND 3C PART B Page n. 3 of 9

Appropriate engineering controls: Not available

#### **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:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105: Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min. Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min. Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

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

## Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: No data available

Odour: No data available

Odour threshold: No data available

pH: No data available

Melting point / freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: 100 °C (212 °F) Evaporation rate: No data available

Upper/lower flammability or explosive limits: No data available

Vapour density: No data available Vapour pressure: No data available Relative density: 1.03 g/cm3 Solubility in water: Soluble Solubility in oil: No data available

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available Oxidizing properties: No data available Solid/gas flammability: No data available

## Other information

Substance Groups relevant properties No data available

Miscibility: No data available Fat Solubility: No data available Conductivity: No data available

## 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.

Print date 11/10/2022 Production Name PLANIBOND 3C PART B Page n. 4 of 9

#### 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

## Toxicological information of the product:

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 of the main substances found in the product:

a) acute toxicity

benzenedimethanamine;

phenylenebis (methylamine) LD50 Skin Rabbit = 2 g/kg

LC50 Inhalation Rat = 700 ppm 1h

LD50 Oral Rat = 930 mg/kg LD50 Oral Rat = 660 mg/kg

isophorone diamine; 3a) acute toxicity

aminomethyl-3,5,5trimethylcyclohexylamine

LD50 Oral Rat = 1030 mg/kg

LD50 Skin Rat > 2000 mg/kg LD50 Oral Rat = 1030 mg/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

Toxicological kinetics, metabolism and distribution information

- i) STOT-repeated exposure
- j) aspiration hazard

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

None

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

## 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

#### Component Ident. Numb. Ecotox Infos

1,3-benzenedimethanamine; m-CAS: 1477-55-0 a) Aquatic acute toxicity: LC50 Fish Oryzias latipes = 87,6 mg/L 96h ECHA phenylenebis(methylamine)

Print date 11/10/2022 **Production Name** PLANIBOND 3C PART B 5 of Page n.

isophorone diamine; 3aminomethyl-3,5,5trimethylcyclohexylamine CAS: 2855-13-2 a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna 14,60000 mg/L 48h

EPA

a) Aquatic acute toxicity: EC50 Daphnia magna = 42,00000 mg/L - 24hr
a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 37 mg/L

72h IUCLID

a) Aquatic acute toxicity: EC50 Algae idus = 110,00000 mg/L 96h

## Persistence and degradability

Not available

#### **Bioaccumulative potential**

Not available

#### Mobility in soil

Not available

#### Other adverse effects

Not available

#### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

## Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

## Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

# Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

# **UN** number

ADR-UN number: 3082 DOT-UN Number: UN3082 IATA-Un number: 3082 IMDG-Un number: 3082

# **UN** proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aliphatic polyamine; Amines,

polyethylenepoly-, triethylenetetramine fraction)

DOT-Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (aliphatic polyamine; Amines, polyethylenepoly-,

triethylenetetramine fraction)

IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aliphatic polyamine; Amines,

polyethylenepoly-, triethylenetetramine fraction)

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aliphatic polyamine; Amines,

polyethylenepoly-, triethylenetetramine fraction)

#### Transport hazard class(es)

ADR-Class: 9

DOT-Hazard Class: 9

IATA-Class: 9
IMDG-Class: 9

# Packing group

ADR-Packing Group: III

Print date 11/10/2022 Production Name PLANIBOND 3C PART B Page n. 6 of 9

DOT-Packing group: III IATA-Packing group: III IMDG-Packing group: III

#### **Environmental hazards**

Marine pollutant: Yes

Environmental Pollutant: Not available

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

Not available

# **Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): 8, 146, 173, 335, IB3, T4, TP1, TP29

DOT-Label(s): 9
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: 9

ADR-Hazard identification number: 90

ADR-Transport category (Tunnel restriction code): 3 (-)

Air (IATA):

IATA-Passenger Aircraft: 964 IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisioning: A97 A158 A197

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274 335 969

IMDG-Page: N/A IMDG-Label: N/A 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:**

1,3-benzenedimethanamine; m- is listed in TSCA Section 8b phenylenebis(methylamine)

isophorone diamine; 3- is listed in TSCA Section 8b aminomethyl-3,5,5- trimethylcyclohexylamine

## **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

Print date 11/10/2022 Production Name PLANIBOND 3C PART B Page n. 7 of 9

# 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:

1,3-benzenedimethanamine; m-phenylenebis(methylamine)

#### Pennsylvania Right to know

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

1,3-benzenedimethanamine; m-phenylenebis(methylamine)

#### New Jersey Right to know

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

1,3-benzenedimethanamine; m-phenylenebis(methylamine)

isophorone diamine; 3-aminomethyl-3,5,5-trimethylcyclohexylamine

#### Canada - Federal regulations

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

**DSL (Domestic Substances List)** 

All the substances are listed in the DSL.

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

**NDSL (Non Domestic Substances List)** 

No substances listed

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

NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

## 16. OTHER INFORMATION

Safety Data Sheet dated: 6/16/2021 - version 6

# **Additional classification information**

NFPA Health: 3 = Serious

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = MinimalNFPA 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.

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.
H332	Harmful if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

Print date 11/10/2022 Production Name PLANIBOND 3C PART B 8 of 9 Page n.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

## 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
- 6. ACCIDENTAL RELEASE MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 14. TRANSPORT INFORMATION
- 16. OTHER INFORMATION

Print date 11/10/2022 Production Name PLANIBOND 3C PART B Page n. 9 of 9