Safety Data Sheet

PLANIGROUT 300 PARTE B

Safety Data Sheet dated: 14/03/2023 - version 3

Date of first edition: 24/01/2022



Section 1: Identification

GHS Product identifier

Mixture identification:

Trade name: PLANIGROUT 300 PARTE B

Trade code: 900483

Recommended use of the chemical and restrictions on use

Recommended use: Hardener for epoxy products

Uses advised against: Data not available.

Supplier's details

Company: MAPEI AUSTRALIA Pty Ltd

180 Viking Drive Wacol QLD 4076 Australia

T. +61 7 32765000 (Mon-Fri 8am to 4.30pm)

F. +61 7 32765076

Responsable: sales@mapei.com.au

Emergency phone number

Australian Poisons Information Centre 24 Hour Service 13 11 26

Police or Fire Brigade 000

Section 2: Hazard(s) identification









Classification of the Hazardous chemical

Skin corrosion, Category 1B Causes severe skin burns and eye damage.

Serious eye damage, Category 1 Causes serious eye damage.

Skin Sensitisation, Category 1A May cause an allergic skin reaction.

Reproductive toxicity, Category 1B May damage fertility or the unborn child.

Long-term (chronic) aquatic hazard - Category 2 Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

GHS label elements, including precautionary statements

Pictograms and Signal Words



Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
 H360 May damage fertility or the unborn child.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Print date 14/03/2023 Production Name PLANIGROUT 300 PARTE B Page n. 1 of 10

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 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.

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

P391 Collect spillage.

P501 Dispose of contents/container in accordance with applicable regulations.

Other hazards which do not result in a classification

Other Hazards: No other hazards

Section 3: Composition and information on ingredients

Substances

no data available

Mixtures

Mixture identification: PLANIGROUT 300 PARTE B

Hazardous components within the meaning of the "Australian Work Health and Safety (WHS)" regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
≥50 - <75 %	fatty acids, C18 unsatd., dimers,oligomeric reaction products with teta	CAS:68082-29-1 EC:500-191-5	Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Sens. 1A, H317	01-2119972320-44-xxxx
≥20 - <25 %	triethylenetetramine	CAS:90640-67- 8, 112-24-3 EC:292-588-2	Acute Tox. 4, H312; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412	01-2119487919-13-XXXX
≥10 - <20 %	4,4'-isopropylidenediphenol	CAS:80-05-7 EC:201-245-8 Index:604-030- 00-0	STOT SE 3, H335; Eye Dam. 1, H318; Skin Sens. 1, H317; Repr. 1B, H360F; Aquatic Chronic 2, H411	01-2119457856-23-0005

Section 4: First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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.

Symptoms caused by exposure

Eye irritation

Eye damages

Skin Irritation

Erythema

Medical attention and special treatment

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

Section 5: Firefighting measures

Suitable extinguishing media

None in particular.

Print date 14/03/2023 Production Name PLANIGROUT 300 PARTE B Page n. 2 of 10

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: no data available

Explosive properties: no data available Oxidizing properties: no data 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.

HazChem Code/Emergency Action code

2

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

Environmental precautions

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

Wash with plenty of water.

Retain contaminated washing water and dispose it.

Section 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.

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

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Section 8: Exposure controls and personal protection

Control parameters – exposure standards, biological monitoring

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
4,4'-isopropylidenediphenol CAS: 80-05-7	National	FINLAND	Long Term: 5 mg/m3
	National	NORWAY	Long Term: 10 mg/m3 A: Provoking allergic reactions or other hypersensitivity in the eyes or respiratory organs, or in contact with skin. R: To be treated as harmful to reproduction
	National	SWEDEN	Long Term: 2 mg/m3
	National	FRANCE	Long Term: 10 mg/m3
	National	SPAIN	Long Term: 2 mg/m3
	National	GREECE	Long Term: 2 mg/m3

Print date 14/03/2023 Production Name PLANIGROUT 300 PARTE B Page n. 3 of 10

National DENMARK Long Term: 2 mg/m3
National FINLAND Long Term: 2 mg/m3
National GERMANY Long Term: 5 mg/m3
National PORTUGAL Long Term: 10 mg/m3

National NORWAY Long Term: 2 mg/m3; Short Term: 4 mg/m3

National BELGIUM Long Term: 10 mg/m3
National CZECH Long Term: 2 mg/m3

REPUBLIC

National HUNGARY Long Term: 2 mg/m3
National ESTONIA Long Term: 10 mg/m3
National LATVIA Long Term: 2 mg/m3

National CZECH Ceiling - Short Term: 5 mg/m3

REPUBLIC

National SLOVAKIA Long Term: 2 mg/m3

National SLOVENIA Long Term: 5 mg/m3; Short Term: 5 mg/m3 National UNITED Long Term: 2 mg/m3; Short Term: 6 mg/m3

KINGDOM

National BULGARIA Long Term: 2 mg/m3
National ROMANIA Long Term: 2 mg/m3
National LITHUANIA Long Term: 10 mg/m3
National CROATIA Long Term: 2 mg/m3
National PORTUGAL Long Term: 2 mg/m3
National BELGIUM Long Term: 2 mg/m3

National SLOVENIA Long Term: 2 mg/m3; Short Term: 2 mg/m3

Predicted No Effect Concentration (PNEC) values

fatty acids, C18 unsatd., Exposure Route: Fresh Water; PNEC Limit: 0,00434 mg/l

dimers,oligomeric reaction products with teta

CAS: 68082-29-1

Exposure Route: Marine water; PNEC Limit: 0,000434 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 434,02 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 43,4 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 0,123 mg/kg

Exposure Route: Soil; PNEC Limit: 86,78 mg/kg

triethylenetetramine

CAS: 90640-67-8, 112-

Exposure Route: Freshwater sediments; PNEC Limit: 2,08 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 8 mg/l

isopropylidenediphenol

4.4'-

CAS: 80-05-7

Exposure Route: Marine water; PNEC Limit: 0,016 mg/l

Exposure Route: Fresh Water; PNEC Limit: 0,018 mg/l

Exposure Route: Soil; PNEC Limit: 3,7 mg/kg

Derived No Effect Level (DNEL) values

fatty acids, C18 unsatd., dimers,oligomeric reaction products with Exposure Route: Human Inhalation; Exposure Frequency: Long Term (repeated)

Worker Industry: 0,00039 mg/cm2; Worker Professional: 0,00039 mg/cm2; Consumer: 0,000097 mg/cm2

teta CAS: 68082-29-1

Exposure Route: Human Dermal; Exposure Frequency: Long Term (repeated)

Worker Industry: 1,1 mg/kg; Worker Professional: 0,00011 mg/cm2; Consumer: 0,56 mg/kg

triethylenetetramine CAS: 90640-67-8, 112-

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

: 90640-67-8, 112- Worker Professional: 5,38 mg/l

24-3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Print date 14/03/2023 Production Name PLANIGROUT 300 PARTE B Page n. 4 of 10

Worker Professional: 0,57 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 20 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Consumer: 8 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Consumer: 1,6 mg/l

4,4'isopropylidenediphenol

CAS: 80-05-7

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Worker Professional: 1,4 mg/kg; Consumer: 0,7 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Worker Professional: 10 mg/m3; Consumer: 5 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 1,4 mg/kg; Consumer: 0,7 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 10 mg/m3; Consumer: 0,25 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 0,05 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 0,05 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Consumer: 5 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Consumer: 5 mg/m3

Appropriate engineering controls

no data available

Individual protection measures, such as personal protective equipment (PPE)

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; AS/NZS 2161.10:

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 protective 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 AS/NZS 1715-1716 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

Section 9: Physical and chemical properties

Physical state: Liquid Appearance: liquid Color: light brown Odour: Characteristic pH: no data available

Melting point / freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point: 110 °C (230 °F) Evaporation rate: no data available Flammability (Solid, Gas) no data available

Lower and upper explosion limit/flammability limits: no data available

Vapour pressure: no data available Vapour density: no data available Relative density: 0.98 g/cm3

Print date 14/03/2023 Production Name PLANIGROUT 300 PARTE B Page n. 5 of 10

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

Kinematic viscosity: no data available

VOC % (Volatile Organic Compound) : No data available

Particle characteristics: Particle size: no data available

Particle size distribution: no data available Shape and aspect ratio: no data available Specific surface area: no data available

Section 10: Stability and reactivity

Reactivity

Stable under normal conditions

Chemical stability

no data available

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

Section 11: Toxicological information Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation The product is classified: Skin corrosion, Category 1B(H314)

c) serious eye damage/irritation The product is classified: Serious eye damage, Category 1(H318) d) respiratory or skin sensitisation The product is classified: Skin Sensitisation, Category 1A(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity The product is classified: Reproductive toxicity, Category 1B(H360)

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

fatty acids, C18 unsatd., a) acute toxicity dimers, oligomeric

LD50 Oral Rat > 2000 mg/kg

reaction products with teta

LD50 Skin Rat > 2000 mg/kg

triethylenetetramine a) acute toxicity LD50 Skin Rabbit = 1465 mg/kg

LD50 Oral Rat = 1716 mg/kg

4,4'- a) acute toxicity LD50 Skin Rat = 3000,

Print date 14/03/2023 Production Name PLANIGROUT 300 PARTE B Page n. 6 of 10

LC50 Inhalation Rat > 170, mg/m3 6h LD50 Oral Rat > 2000, mg/kg

Section 12: Ecological information

Ecotoxicity

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

Eco-Toxicological Information:

Toxic to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Long-term (chronic) aquatic hazard - Category 2(H411)

List of Eco-Toxicological properties of the components

List of Eco-Toxicological properties of the components				
Component	Ident. Numb.	Ecotox Data		
fatty acids, C18 unsatd., dimers,oligomeric reaction products with teta	CAS: 68082-29- 1 - EINECS: 500-191-5	a) Aquatic acute toxicity :	LC50 Fish = 7,07 mg/L 96h	
		a) Aquatic acute toxicity :	EC50 Daphnia = 7,07 mg/L 48h	
		a) Aquatic acute toxicity:	EC50 Algae > 4,34 mg/L 72h	
triethylenetetramine	CAS: 90640-67- 8, 112-24-3 - EINECS: 292- 588-2	a) Aquatic acute toxicity :	EC50 Daphnia = 31,1 mg/L 48h	
4,4'-isopropylidenediphenol	CAS: 80-05-7 - EINECS: 201- 245-8 - INDEX: 604-030-00-0	a) Aquatic acute toxicity:	LC50 Fish = 4,6 mg/L 96	
		a) Aquatic acute toxicity :	LC50 Fish Pimenhales promelas 4	

a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 4 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 4 mg/L 96h IUCLID

a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio = 9.9 mg/L 96h IUCLID a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 10.2 mg/L 48h IUCLID

a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = $2.5 \,$ mg/L 96h IUCLID

Persistence and degradability

Component

Persitence/Degradability:

fatty acids, C18 unsatd., dimers,oligomeric reaction products with teta Non-readily biodegradable

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

Section 13: Disposal considerations

Disposal methods

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

no data available

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:

 Print date
 14/03/2023
 Production Name
 PLANIGROUT 300 PARTE B
 Page n.
 7 of 10

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.

Section 14: Transport information

UN number

2735

UN proper shipping name

ADG-Shipping Name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (triethylenetetramine - amine adduct) ADR-Shipping Name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (triethylenetetramine - amine adduct) IATA-Technical name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (triethylenetetramine - amine adduct) IMDG-Technical name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (triethylenetetramine - amine adduct)

Transport hazard class(es)

ADG-Class: 8
ADR-Class: 8
IATA-Class: 8
IMDG-Class: 8

Packing group, if applicable

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

Environmental hazards

ADG-Environmental Pollutant: Yes

Marine pollutant: Yes

Special precautions for user

ADG-Subsidiary hazards -

ADG-S.P.: 274
Road and Rail (ADR-RID):
ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Special Provisions: 274

ADR-Transport category (Tunnel restriction code): 2 (E)

Air (IATA):

IATA-Passenger Aircraft: 851 IATA-Cargo Aircraft: 855

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisions: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category A IMDG-Stowage Note: SG35 IMDG-Subsidiary hazards: - IMDG-Special Provisions: 274

IMDG-EMS: F-A, S-B

Additional Information

no data available

HazChem Code/Emergency Action code

2X

 Print date
 14/03/2023
 Production Name
 PLANIGROUT 300 PARTE B
 Page n.
 8 of 10

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals.

AICIS: all components are listed

Section 16: Any other relevant information

Code	Description
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.
H335	May cause respiratory irritation.
H360F	May damage fertility.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.7/1B	Repr. 1B	Reproductive toxicity, Category 1B
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
AUS-HAE/C2	Aquatic Chronic 2	Long-term (chronic) aquatic hazard - Category 2
AUS-HAE/C3	Aquatic Chronic 3	Long-term (chronic) aquatic hazard - Category 3

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

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

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:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

Print date 14/03/2023 Production Name PLANIGROUT 300 PARTE B Page n. 9 of 10

DMEL: Derived Minimal Effect Level DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive DSD: Dangerous Substances Directive EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- 2. HAZARDS IDENTIFICATION

- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 16. OTHER INFORMATION

Print date 14/03/2023 Production Name PLANIGROUT 300 PARTE B Page n. 10of 10