Safety Data Sheet PRIMER SN /B

Safety Data Sheet dated: 14/03/2023 - version 4

Date of first edition: 11/03/2020



Section 1: Identification

GHS Product identifier

Mixture identification:

Trade name: PRIMER SN /B

Trade code: 900216

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

Acute toxicity (oral), Category 4 Harmful if swallowed.

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.

Specific target organ toxicity — repeated exposure, Category 2 May cause damage to organs through prolonged or repeated

exposure if inhaled, in contact with skin and if swallowed.

Harmful to aquatic life with long lasting effects.

Long-term (chronic) aquatic hazard - Category 3 Adverse physicochemical, human health and environmental effects:

No other hazards

GHS label elements, including precautionary statements

Pictograms and Signal Words



Danger

Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and

if swallowed.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe mist/vapours/spray. P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell.

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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.	
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.	
P314	Get medical advice/attention. if you feel unwell.	
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.	
P405	Store locked up.	
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: PRIMER SN /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
≥25 - <50 %	benzyl alcohol	CAS:100-51-6 EC:202-859-9 Index:603-057- 00-5	Acute Tox. 4, H332; Acute Tox. 4, H302; Eye Irrit. 2A, H319	01-2119492630-38-XXXX
≥25 - <50 %	formaldehyde, polymer with benzenamine, hydrogenated	CAS:135108-88- 2 EC:603-894-6	Acute Tox. 3, H301; Eye Dam. 1, H318; STOT RE 2, H373; Skin Corr. 1C, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412	01-2119983522-33
≥5 - <10 %	N,N'-BIS(3- AMINOPROPYL)ETHYLENEDIAMINE		Acute Tox. 4, H302; Acute Tox. 3, H311; Skin Corr. 1B, H314; Skin Sens. 1A, H317	01-2119976331-37
≥5 - <10 %	2,4,6- tris(dimethylaminomethyl)phenol	CAS:90-72-2 EC:202-013-9 Index:603-069- 00-0	Acute Tox. 4, H302; Skin Corr. 1C, H314; Eye Dam. 1, H318	01-2119560597-27-XXXX
≥0.49 - <1 %	N-(2-AMINOETHYL)-1,3- PROPANEDIAMINE	CAS:13531-52-7 EC:236-882-0	Acute Tox. 4, H302; Skin Corr. 1A, H314; Skin Sens. 1A, H317; Acute Tox. 2, H310	01-2120097861-45

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.

 $\label{lem:lemove contaminated clothing immediately and dispose of safely. \\$

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.

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

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.

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: ==

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

2X

Section 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.

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.

Use localized ventilation system.

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

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

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

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

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Control parameters - exposure standards, biological monitoring

Community Occupational Exposure Limits (OEL)

Country **Occupational Exposure Limit** Type benzyl alcohol National FINLAND Long Term: 45 mg/m3 - 10 ppm CAS: 100-51-6 National POLAND Long Term: 240 mg/m3 National GERMANY Long Term: 22 mg/m3 - 5 ppm National CZECH Long Term: 40 mg/m3 **REPUBLIC** National LATVIA Long Term: 5 mg/m3 National CZECH Ceiling - Short Term: 80 mg/m3 REPUBLIC National BULGARIA Long Term: 5 mg/m3

National LITHUANIA Long Term: 5 mg/m3

National SLOVENIA Long Term: 22 mg/m3 - 5 ppm; Short Term: 44 mg/m3 - 10 ppm

Predicted No Effect Concentration (PNEC) values

benzyl alcohol CAS: 100-51-6

Exposure Route: Fresh Water; PNEC Limit: 1 mg/l

Exposure Route: Marine water; PNEC Limit: 0,1 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 5,27 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0,527 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 39 mg/l

Exposure Route: Soil; PNEC Limit: 0,45 mg/kg

Exposure Route: Intermittent release; PNEC Limit: 2,3 mg/l $\,$

formaldehyde, polymer with benzenamine, hydrogenated CAS: 135108-88-2 Exposure Route: Marine water sediments; PNEC Limit: 1,5 mg/kg

Exposure Route: Soil; PNEC Limit: 1,8 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1,9 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 15 mg/kg

Exposure Route: Fresh Water; PNEC Limit: 0,015 mg/l Exposure Route: Marine water; PNEC Limit: 0,002 mg/l

Derived No Effect Level (DNEL) values

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

CAS: 100-51-6 Consumer: 20 mg/kg

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

Consumer: 4 mg/kg

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

Worker Industry: 110 mg/m3; Consumer: 27 mg/m3

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

Worker Industry: 22 mg/m3; Consumer: 5,4 mg/m3

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

Worker Industry: 40 mg/kg; Consumer: 20 mg/kg

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

Worker Industry: 8 mg/kg; Consumer: 4 mg/kg

formaldehyde, polymer with benzenamine, hydrogenated CAS: 135108-88-2 Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Industry: 2 mg/kg

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

Worker Industry: 2 mg/m3

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

Worker Industry: 0,2 mg/m3

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

Worker Industry: 6 mg/kg

2,4,6- Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

tris Worker Industry: 0,31 mg/m3

(dimethylaminomethyl)

phenol CAS: 90-72-2

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: Amber Odour: ammonia pH: no data available

Melting point / freezing point: no data available Initial boiling point and boiling range: 200 °C (392 °F)

Flash point: 100 °C (212 °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: 1.02 g/cm3 Solubility in water: no data available 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): (A+B) 7.4 (Rule 1168) g/l

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.

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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 The product is classified: Acute toxicity (oral), Category 4(H302)

ATEmix - Oral: 545.848 mg/kg bw

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 Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure The product is classified: Specific target organ toxicity — repeated exposure, Category

2(H373)

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

benzyl alcohol a) acute toxicity LC50 Inhalation Mist Rat = 11, mg/l 4h

LD50 Oral Rat = 1230, mg/kg

g) reproductive toxicity NOAEL Rat = 1072, mg/m3

formaldehyde, polymer

with benzenamine, hydrogenated

a) acute toxicity

LD50 Oral Rat = 300, mg/kg

LD50 Skin Rabbit > 2000, mg/kg

i) STOT-repeated

exposure

No Observed Adverse Effect Level Oral Rat = 15,

mg/kg

N,N'-BIS(3-

AMINOPROPYL)
ETHYLENEDIAMINE

a) acute toxicity

LD50 Oral Rat = 1200, mg/kg

LD50 Skin Rabbit = 300, mg/kg LD50 Oral Rat = 1200 mg/kg

2,4,6- a) acute toxicity

tris

(dimethylaminomethyl)

phenol

LD50 Oral Rat = 2169 mg/kg

LD50 Skin Rat > 1, ml/kg

N-(2-AMINOETHYL)-1,3- a) acute toxicity

PROPANEDIAMINE

LD50 Skin Rabbit = 184, mg/kg

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Section 12: Ecological information

Ecotoxicity

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

Eco-Toxicological Information:

Harmful 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 3(H412)

List of Eco-Toxicological properties of the components

Component Ident. Numb. **Ecotox Data** CAS: 100-51-6 - a) Aquatic acute toxicity: EC50 Daphnia = 230 mg/L 48 benzyl alcohol EINECS: 202-859-9 - INDEX: 603-057-00-5 a) Aquatic acute toxicity: LC50 Fish = 770 mg/L 1 a) Aquatic acute toxicity: EC50 Algae = 770 mg/L 72 a) Aquatic acute toxicity: LC50 Fish = 460 mg/L 96 a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 460 mg/L 96h CAS: 135108a) Aquatic acute toxicity: LC50 Fish Poecilia reticulata = 63 mg/L 96h ECHA formaldehyde, polymer with benzenamine, hydrogenated 88-2 - EINECS: 603-894-6 a) Aquatic acute toxicity: EC50 Daphnia = 15,4 mg/L 48h a) Aquatic acute toxicity: EC50 Algae = 43,94 mg/L 72h 2,4,6-CAS: 90-72-2 a) Aquatic acute toxicity: LC50 Fish = 175 mg/L 96h tris(dimethylaminomethyl)phenol EINECS: 202-013-9 - INDEX: 603-069-00-0 a) Aquatic acute toxicity: EC50 Algae = 46,7 mg/L 72h a) Aquatic acute toxicity: NOEC Algae = 25,1 mg/L 72h CAS: 13531-52- a) Aquatic acute toxicity: EC50 Daphnia = 25,93 mg/L 48h N-(2-AMINOETHYL)-1,3-**PROPANEDIAMINE** 7 - EINECS: 236-882-0

Persistence and degradability

Component Persitence/Degradability:

formaldehyde, polymer with benzenamine, hydrogenated

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:

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,

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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. (cycloaliphatic amines) ADR-Shipping Name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic amines) IATA-Technical name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic amines) IMDG-Technical name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic amines)

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: No

Marine pollutant: No

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

Transport in accordance with 2.2.3.1.5 of ADR and 2.3.2.5 of the IMDG Code.

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

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Section 16: Any other relevant information

Code	Description		
H301	Toxic if swallowed.		
H302	Harmful if swallowed.		
H310	Fatal in contact with skin.		
H311	Toxic in contact with skin.		
H314	Causes severe skin burns and eye damage.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H412	Harmful to aquatic life with long lasting effects.		
Code	Hazard class and hazard category	Description	
3.1/2/Dermal	Acute Tox. 2	Acute toxicity (dermal), Category	
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category	

Code	Hazard class and hazard category	Description
3.1/2/Dermal	Acute Tox. 2	Acute toxicity (dermal), Category 2
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1A	Skin Corr. 1A	Skin corrosion, Category 1A
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, 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 quarantee 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

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CSR: Chemical Safety Report
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

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