## **Safety Data Sheet**

# **KERAPOXY ADHESIVE comp. B**

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

Date of first edition: 16/09/2020



#### **Section 1: Identification**

#### **GHS Product identifier**

Mixture identification:

Trade name: KERAPOXY ADHESIVE comp. B

Trade code: 9025114

#### 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.

Short-term (acute) aquatic hazard - Category 2 Toxic to aquatic life

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.

H411 Toxic to aquatic life with long lasting effects.

# **Precautionary statements**

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.

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.

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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

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

# Section 3: Composition and information on ingredients

#### **Substances**

no data available

#### **Mixtures**

Mixture identification: KERAPOXY ADHESIVE comp. 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 %	free crystalline silica (Ø >10 $\mu$ )	CAS:14808-60-7 EC:238-878-4		
≥20 - <25 %	Fatty acids C18 unsaturated, reaction products with tetraethylenepentamine	CAS:1226892- 45-0, 68410-23- 1 EC:629-725-6	Skin Corr. 1C, H314; Skin Sens. 1A, H317; Aquatic Chronic 1, H410; Eye Dam. 1, H318; Aquatic Acute 1, H400	01-2119487006-38-XXXX
≥5 - <10 %	3-aminomethyl-3,5,5- trimethylcyclohexylamine	CAS:2855-13-2 EC:220-666-8 Index:612-067- 00-9	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Specific Concentration Limits:	01-2119514687-32-xxxx
			C ≥ 0,001%: Skin Sens. 1A H317	
≥2.5 - <5 %	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'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	CAS:10563-29-8 EC:234-148-4	Acute Tox. 4, H302; Skin Corr. 1A, H314; Skin Sens. 1B, H317	01-2119970376-29-XXXX

## 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

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#### 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.

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.

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)**

u) A2 - Suspected Human Carcinogen; lung cancer; pulmonary fibrosis

CAS: 14808-60-7

National AUSTRALIA Long Term: 0,05 mg/m3

National BELGIUM Long Term: 0,1 mg/m3

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National BULGARIA Long Term: 0,07 mg/m3
National CROATIA Long Term: 0,1 mg/m3
National CZECH Long Term: 0,1 mg/m3

REPUBLIC

National DENMARK Long Term: 0,3 mg/m3

DENMARK, inhalable aerosol inhalable aerosol

National DENMARK Long Term: 0,1 mg/m3

DENMARK, respirable aerosol respirable aerosol

National DENMARK Long Term: 0,3 mg/m3 National DENMARK Long Term: 0,1 mg/m3 National ESTONIA Long Term: 0,1 mg/m3 National FINLAND Long Term: 0,05 mg/m3 National FRANCE Long Term: 0,1 mg/m3 National HUNGARY Long Term: 0,15 mg/m3 National LITHUANIA Long Term: 0,1 mg/m3 National NORWAY Long Term: 0,3 mg/m3

Totalstøv (total dust); K: Kjemikalier som skal betraktes som kreftfremkallende. (K:

Chemicals to be treated as carcinogenic.)

ACGIH Long Term: 0,025 mg/m3

(R), A2 - Pulm fibrosis, lung cancer

National PORTUGAL Long Term: 0,025 mg/m3
National ROMANIA Long Term: 0,1 mg/m3

National SLOVAKIA Long Term: 0,1 mg/m3; Short Term: 0,5 mg/m3

National SLOVENIA Long Term: 0,1 mg/m3
National SPAIN Long Term: 0,05 mg/m3
National SWEDEN Long Term: 0,1 mg/m3
National SWITZERLAN Long Term: 0,15 mg/m3

D A

**Predicted No Effect Concentration (PNEC) values** 

3-aminomethyl-3,5,5- Exposure Route: Fresh Water; PNEC Limit: 0,06 mg/l

trimethylcyclohexylamine

CAS: 2855-13-2

Exposure Route: Marine water; PNEC Limit: 0,006 mg/l
Exposure Route: Intermittent release; PNEC Limit: 0,23 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 5,784 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 0,578 mg/kg

Exposure Route: Soil; PNEC Limit: 1,121 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 3,18 mg/l

N'-(3-aminopropyl)-N,N-

dimethylpropane-1,3-

diamine

CAS: 10563-29-8

Exposure Route: Marine water; PNEC Limit: 0,00092 mg/l Exposure Route: Intermittent release; PNEC Limit: 0,092 mg/l

Exposure Route: Fresh Water; PNEC Limit: 0,0092 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 18,1 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0,0336 mg/kg

**Derived No Effect Level (DNEL) values** 

3-aminomethyl-3,5,5- Exposure Route: Human Inhalation trimethylcyclohexylamine Worker Industry: 20,1 mg/m3

CAS: 2855-13-2

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

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N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-

dimethylpropanediamine

CAS: 10563-29-8

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

Worker Industry: 3,7 mg/m3; Consumer: 0,65 mg/m3

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

Worker Industry: 7,5 mg/m3

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

Worker Industry: 3,7 mg/m3; Consumer: 0,65 mg/m3

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

Worker Industry: 0,67 mg/kg

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

Consumer: 0,2 mg/kg

#### **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: paste Color: Beige Odour: ammonia

pH: 11.00

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 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: 1.61 g/cm3 Solubility in water: partly soluble

Solubility in oil: soluble

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): 16.5 (A+B) (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

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## 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**

Not classified a) acute toxicity

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

Not classified f) carcinogenicity

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

Not classified h) STOT-single exposure

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:

a) acute toxicity

free crystalline silica (Ø a) acute toxicity

 $>10 \mu$ )

LD50 Oral > 2000 mg/kg

LD50 Skin > 2000 mg/kg

Fatty acids C18

unsaturated, reaction products with

tetraethylenepentamine

a) acute toxicity LD50 Oral Rat > 2000 mg/kg

3-aminomethyl-3,5,5-

trimethylcyclohexylamine

LC50 Inhalation Dust Rat > 5,01 mg/l 4h

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

2,4,6a) acute toxicity

tris

(dimethylaminomethyl)

phenol

LD50 Oral Rat = 2169 mg/kg

LD50 Skin Rat > 1, ml/kg

N'-(3-aminopropyl)-N,N- a) acute toxicity

dimethylpropane-1,3-

diamine

LD50 Oral Rat = 1670 mg/kg

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Skin Sensitization Skin Positive

# **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

Toxic to aquatic life with long lasting effects.

#### List of Eco-Toxicological properties of the product

The product is classified: Short-term (acute) aquatic hazard - Category 2(H401), Long-term (chronic) aquatic hazard - Category 2(H401)

## List of Eco-Toxicological properties of the components

Component	Ident. Numb.	<b>Ecotox Data</b>
Component	Tacilli Hailibi	ECOLOX Dutu

3-aminomethyl-3,5,5- CAS: 2855-13-2 a) Aquatic acute toxicity: LC50 Fish = 110 mg/L 96

trimethylcyclohexylamine - EINECS: 220-666-8 - INDEX: 612-067-00-9

a) Aquatic acute toxicity: EC50 Daphnia = 23 mg/L 48
 a) Aquatic acute toxicity: EC50 Daphnia = 388 mg/L 48

a) Aquatic acute toxicity : EC50 Algae > 50 mg/L 72

b) Aquatic chronic toxicity : NOEC Daphnia = 3 mg/L - 21 d

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna 14,6 mg/L 48h EPA
a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 37 mg/L

72h IUCLID

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

N'-(3-aminopropyl)-N,Ndimethylpropane-1,3-diamine CAS: 10563-29- a) Aquatic acute toxicity: LC50 Fish = 215 mg/L 96 8 - EINECS: 234-148-4

a) Aquatic acute toxicity: EC50 Daphnia = 9,2 mg/L 48
 a) Aquatic acute toxicity: EC50 Algae = 21 mg/L 72

a) Aquatic acute toxicity: LC50 Fish Danio rerio > 100 mg/L 96h ECHA

# Persistence and degradability

no data available

#### **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.

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#### 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.

#### **Section 14: Transport information**

# **UN** number

2735

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

ADG-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (adducted polyamide)
ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (adducted polyamide)
IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (adducted polyamide)
IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (adducted polyamide)

# Transport hazard class(es)

ADG-Class: 8,III IATA-Class: 8,III IMDG-Class: 8,III

# Packing group, if applicable

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

#### **Environmental hazards**

ADG-Environmental Pollutant: Yes

Marine pollutant: Yes

Special precautions for user

ADG-Subsidiary hazards -

ADG-S.P.: 223 274 Road and Rail (ADR-RID):

ADR-Label: 8

ADR-Hazard identification number: NA

ADR-Special Provisions: 274

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

# Air (IATA):

IATA-Passenger Aircraft: 852 IATA-Cargo Aircraft: 856

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: 223 274

IMDG-EMS: F-A, S-B

#### **Additional Information**

no data available

## HazChem Code/Emergency Action code

no data available

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## **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.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
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
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
AUS-HAE/A1	Aquatic Acute 1	Short-term (acute) aquatic hazard - Category 1
AUS-HAE/C1	Aquatic Chronic 1	Long-term (chronic) aquatic hazard - Category 1

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 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

 $\hbox{EINECS: European Inventory of Existing Commercial Chemical Substances.} \\$ 

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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
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 16. OTHER INFORMATION

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