Safety Data Sheet **MAPEFIX EP 100 COMP.B**

Safety Data Sheet dated: 13/03/2023 - version 2

Date of first edition: 03/11/2022



Section 1: Identification

GHS Product identifier

Mixture identification:

Trade name: MAPEFIX EP 100 COMP.B

Trade code: 9019695

Recommended use of the chemical and restrictions on use

Recommended use: Chemical anchor for metallic rebar

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 1A 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.

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.

Precautionary statements

P260 Do not breathe dust.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/clothing and eye/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell. 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.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy P305+P351+P338

to do. Continue rinsing.

P310 Immediately call a POISON CENTER.

Print date 08/06/2023 **Production Name** MAPEFIX EP 100 COMP.B Page n. 1 of 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.

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: MAPEFIX EP 100 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
≥25 - <50 %	trimethylhexamethylenediamine	CAS:25513-64-8 EC:247-063-2	Acute Tox. 4, H302; Skin Corr. 1A, H314; Skin Sens. 1A, H317	01-2119560598-25-XXXX
≥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
≥2.5 - <5 %	m-xylylenediamine	CAS:1477-55-0 EC:216-032-5	Acute Tox. 4, H332; Acute Tox. 4, H302; Aquatic Chronic 3, H412; Aquatic Acute 3, H402; Skin Corr. 1B, H314; Skin Sens. 1B, H317	01-2119480150-50-XXXX
≥2.5 - <5 %	p-toluenesulphonic acid (containing a maximum of 5 % H2SO4)	CAS:104-15-4 EC:203-180-0 Index:016-030- 00-2	Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315	01-2119538811-39-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:

Give nothing to eat or drink.

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.

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

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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

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

Take up mechanically and dispose of according to local/state/federal regulations

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

Scoop into containers and seal for disposal.

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.

Country

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

OEL

ACGIH

Control parameters - exposure standards, biological monitoring

Community Occupational Exposure Limits (OEL)

	Туре	
m-xylylenediamine CAS: 1477-55-0	ACGIH	Ceiling - Short Term: 0,1 mg/m3 Skin - Eye, skin, and GI irr
	National FINLAND	Short Term: 0,1 mg/m3 FINLAND, takvärde, hud
	National NORWAY	Ceiling - Short Term: 0.1 mg/m3 T: Ceiling value is an instantaneous value that indicates the maximum concentration of a chemical in the breathing zone that should not be exceeded
	National AUSTRIA ACGIH	Long Term: 0,1 mg/m3; Short Term: 0,1 mg/m3 Ceiling - Short Term: 0,1 mg/m3

Occupational Exposure Limit

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gastrointestinal and skin irritation

Skin - potential significant contribution to overall exposure by the cutaneous route; eye,

National FRANCE Short Term: 0,1 mg/m3

National DENMARK Ceiling - Short Term: 0,1 mg/m3 - 0,02 ppm

National FINLAND Ceiling - Short Term: 0,1 mg/m3 AUS AUSTRALIA Ceiling - Short Term: 0,1 mg/m3 National PORTUGAL Ceiling - Short Term: 0,1 mg/m3

National SLOVENIA Long Term: 0,1 mg/m3

ACGIH Ceiling - Short Term: 0,1 mg/m3

ACGIH Skin - potential significant contribution to overall exposure by the cutaneous route; eye,

gastrointestinal and skin irritation

National NORWAY Ceiling - Short Term: 0,1 mg/m3 **ACGTH** Ceiling - Short Term: 0,018 ppm

Predicted No Effect Concentration (PNEC) values

trimethylhexamethylenedi Exposure Route: Fresh Water; PNEC Limit: 0,102 mg/l

amine

CAS: 25513-64-8

Exposure Route: Freshwater sediments; PNEC Limit: 0,622 mg/kg

Exposure Route: Marine water; PNEC Limit: 0,01 mg/l

Exposure Route: Marine water sediments; PNEC Limit: 0,062 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 72 mg/l

Exposure Route: Soil; PNEC Limit: 10 mg/kg

m-xylylenediamine CAS: 1477-55-0

Exposure Route: Fresh Water; PNEC Limit: 0,094 mg/kg

Exposure Route: Marine water; PNEC Limit: 0,0094 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0,43 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0,043 mg/kg Exposure Route: Intermittent release; PNEC Limit: 0,152 mg/l

Exposure Route: Soil; PNEC Limit: 0,045 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l

p-toluenesulphonic acid (containing a maximum

of 5 % H2SO4) CAS: 104-15-4

Exposure Route: Fresh Water; PNEC Limit: 0,073 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 58 mg/l

Exposure Route: Marine water; PNEC Limit: 0,0073 mg/l

Exposure Route: Soil; PNEC Limit: 0,016 mg/kg

Derived No Effect Level (DNEL) values

tris

(dimethylaminomethyl) phenol

CAS: 90-72-2

2,4,6-

m-xylylenediamine

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 0,31 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects CAS: 1477-55-0 Worker Industry: 0,33 mg/kg

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

Worker Industry: 1,2 mg/m3

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

Worker Industry: 0,2 mg/m3

p-toluenesulphonic acid (containing a maximum

of 5 % H2SO4) CAS: 104-15-4

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

Worker Industry: 7,6 mg/kg

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

Worker Industry: 53,6 mg/m3

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

Consumer: 2,5 mg/kg

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

Print date 08/06/2023 **Production Name** MAPEFIX EP 100 COMP.B Page n. 4 of 10 Consumer: 8,7 mg/m3

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

Consumer: 2,5 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: Solid Appearance: paste

Color: Black

Odour: Characteristic pH: no data available

 $\label{eq:Melting point / freezing point: no data available} \\$

Initial boiling point and boiling range: no data available

Flash point: no data available 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: 1.42 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

Kinematic viscosity: no data available

VOC % (Volatile Organic Compound): 0 (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.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

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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: 1893.73 mg/kg bw

LD50 Oral Rat = 813,1 mg/kg LD50 Skin Rabbit = 1216,6 mg/kg

LC50 Inhalation Vapour Rat = 5,53 mg/l

b) skin corrosion/irritation
 c) serious eye damage/irritation
 d) respiratory or skin sensitisation
 The product is classified: Serious eye damage, Category 1(H318)
 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 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:

trimethylhexamethylenedi a) acute toxicity amine

.....

LD50 Oral Rat = 910 mg/kg

LD50 Oral Rat = 2169 mg/kg

2,4,6- a) acute toxicity

tris

(dimethylaminomethyl)

phenol

LD50 Skin Rat > 1, ml/kg

m-xylylenediamine a) acute toxicity LD50 Oral Mouse = 930 mg/kg

LD50 Skin Rabbit = 2000 mg/kg

LC50 Inhalation Mist Rat = 1,34 mg/l 4h LC50 Inhalation Rat = 700, ppm 1h

p-toluenesulphonic acid (containing a maximum

a) acute toxicity

LD50 Skin Rabbit > 2000, mg/kg

Section 12: Ecological information

Ecotoxicity

of 5 % H2SO4)

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

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

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List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
trimethylhexamethylenediamine	CAS: 25513-64- 8 - EINECS: 247-063-2	a) Aquatic acute toxicity: LC50 Fish = 174 mg/L 48
		a) Aquatic acute toxicity: EC50 Daphnia = 31,5 mg/L 24
		a) Aquatic acute toxicity: EC50 Algae = 43,5 mg/L 72
		a) Aquatic acute toxicity: NOEC Algae = 16 mg/L 72
		c) Bacteria toxicity: EC50 Bacteria = 89 mg/L 17
		b) Aquatic chronic toxicity: NOEC Fish = 10,9 mg/L - 34 d
		b) Aquatic chronic toxicity: NOEC Daphnia = 1,02 mg/L - 21 d
		d) Terrestrial toxicity: NOEC = 1000 mg/kg - 28 d
2,4,6- tris(dimethylaminomethyl)phenol	CAS: 90-72-2 - EINECS: 202- 013-9 - INDEX: 603-069-00-0	a) Aquatic acute toxicity: LC50 Fish = 175 mg/L 96h
		a) Aquatic acute toxicity: EC50 Algae = 46,7 mg/L 72h
		a) Aquatic acute toxicity: NOEC Algae = 25,1 mg/L 72h
m-xylylenediamine	CAS: 1477-55-0 - EINECS: 216- 032-5	a) Aquatic acute toxicity: EC50 Algae = 20 mg/L 72h
		a) Aquatic acute toxicity: EC50 Daphnia = 15,2 mg/L 48h
		a) Aquatic acute toxicity: LC50 Fish Oryzias latipes = 87,6 mg/L 96h ECHA
p-toluenesulphonic acid (containing a maximum of 5 % H2SO4)	CAS: 104-15-4 - EINECS: 203- 180-0 - INDEX: 016-030-00-2	a) Aquatic acute toxicity: EC50 Daphnia > 100 mg/L 48h
		a) Aquatic acute toxicity: LD50 Fish = 500 mg/L 96h
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.

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

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UN number

3259

UN proper shipping name

ADG-Shipping Name: AMINES, SOLID, CORROSIVE, N.O.S. (trimethylhexamethylenediamine) ADR-Shipping Name: AMINES, SOLID, CORROSIVE, N.O.S. (trimethylhexamethylenediamine) IATA-Technical name: AMINES, SOLID, CORROSIVE, N.O.S. (trimethylhexamethylenediamine) IMDG-Technical name: AMINES, SOLID, CORROSIVE, N.O.S. (trimethylhexamethylenediamine)

Transport hazard class(es)

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

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: No

Marine pollutant: No

Special precautions for user

ADG-Subsidiary hazards -

ADG-S.P.: 223 274

Road and Rail (ADR-RID):

ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Special Provisions: 274

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

Air (IATA):

IATA-Passenger Aircraft: 860 IATA-Cargo Aircraft: 864

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 SGG18

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

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.

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H319	Causes serious eye irritation.				
H332	Harmful if inhaled.				
H335	May cause respiratory irritation.				
H402	Harmful to aquatic life				
H412	Harmful to aquatic life with long lasting effects.				
Code	Hazard class and hazard category	Description			
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			
3.2/2	Skin Irrit. 2	Skin irritation, Category 2			
3.3/1	Eye Dam. 1	Serious eye damage, Category 1			
3.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A			

AUS-HAE/A3 Aquatic Acute 3 Short-term (acute) aquatic hazard - Category 3
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:

H315

H317

H318

3.4.2/1A

3.4.2/1B

3.8/3

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.

Skin Sensitisation, Category 1A

Skin Sensitisation, Category 1B

Specific target organ toxicity — single exposure, Category 3

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.

Skin Sens. 1A

Skin Sens. 1B

STOT SE 3

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

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

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

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

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

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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).

 ${\tt IMDG: International\ Maritime\ Code\ for\ Dangerous\ Goods.}$

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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