

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Mixture identification:

Trade name: MAPEAIR LA-L

Trade code: 9020711

UFI: KUF2-X08T-S00P-PMJY

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Admixture for concrete

Uses advised against: Not available

### 1.3. Details of the supplier of the safety data sheet

Company: MAPEI Spain S.A. - C/ Valencia 11 - Pol. Ind. Can Oller - 08130 - Santa Perpetua de Mogoda - Barcelona

tel: +34-93-3435050 - fax: +34-93-3024229 - www.mapei.es (office hours)

Responsible: sicurezza@mapei.it

### 1.4. Emergency telephone number

Poison center: phone: 91.562.04.20

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

Skin Irrit. 2 Causes skin irritation.  
Eye Irrit. 2 Causes serious eye irritation.  
Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

#### Regulation (EC) n. 1272/2008 (CLP)

#### Pictograms and Signal Words



Warning

#### Hazard statements:

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/clothing and eye/face protection.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with applicable regulations.

#### Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$ .

Other Hazards: No other hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not Relevant

### 3.2. Mixtures

Mixture identification: MAPEAIR LA-L

#### Hazardous components within the meaning of the CLP regulation and related classification:

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥5 - <10 %	calcium chloride	CAS:10043-52-4 EC:233-140-8 Index:017-013-00-2	Eye Irrit. 2, H319	01-2119494219-28-XXXX
≥5 - <10 %	2-methylpentane-2,4-diol	CAS:107-41-5 EC:203-489-0 Index:603-053-00-3	Eye Irrit. 2, H319; Skin Irrit. 2, H315	01-2119539582-35-XXXX
≥5 - <10 %	polyethylen glycol	CAS:25322-68-3 EC:500-038-2	STOT SE 3, H335	01-2119958801-32-XXXX
≥1 - <2.5 %	zinc chloride	CAS:7646-85-7 EC:231-592-0 Index:030-003-00-2	Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, H302	

Specific Concentration Limits:  
5% ≤ C < 100%: STOT SE 3 H335

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

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 ophthalmologist 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.

### 4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

### 4.3. Indication of any immediate medical attention and special treatment needed

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

Treatment:

(see paragraph 4.1)

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

### 5.3. Advice for firefighters

Use suitable breathing apparatus.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

### 6.2. 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.

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

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

Retain contaminated washing water and dispose it.

### 6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

### 7.1. 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.

### 7.2. 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.

### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### List of components with OEL value

	OEL Type	Country	Ceiling	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Note
calcium chloride CAS: 10043-52-4	National	CZECH REPUBLIC		5				
	National	LATVIA		2				
	National	CZECH REPUBLIC	C			4		
2-methylpentane-2,4-diol CAS: 107-41-5	NDSP			120				
	ACGIH		C				25	Eye and URT irr
	National	SWEDEN	C			120	25	SWEDEN, Ceiling limit value
	National	FINLAND		120	25	200	40	
	National	NORWAY		100	20			NORWAY, T
	National	NORWAY		125	25	125	25	
	DFG	GERMANY	C			98	20	
ACGIH				25	10	50	eye and upper respiratory tract irritation	

	National FRANCE			125	25	
	National SPAIN			123	25	
	National GREECE	125	25	125	25	
	National DENMARK	C		125	25	
	National NORWAY	C		100	20	
	NDS POLAND		50			
	NDSch POLAND			100		
	CHE SWITZERLAND			98	20	
	Malaysi MALAYSIA	C		121	25	
	a OEL					
	National PORTUGAL	C			25	
	National SLOVENIA		49	10	49	10
	National UNITED KINGDOM		123	25	123	25
	National LITHUANIA	C			120	25
	National CROATIA		123	25	123	25
polyethylen glycol CAS: 25322-68-3	DFG GERMANY	C		8000		
	National DENMARK		1000			
	National GERMANY		1000			
	National SLOVAKIA	C		8000		
	National SLOVAKIA		1000			
	National SLOVENIA		1000	4000		
zinc chloride CAS: 7646-85-7	DFG GERMANY	C		2		
	ACGIH		1	2		lower and upper respiratory tract irritation (fume)
	National SWEDEN		1			
	National FRANCE		1			
	National SPAIN		1	2		
	National GREECE		1	2		
	National DENMARK		0,5			
	National FINLAND		1			
	National PORTUGAL		1	2		
	National NORWAY		1	2		
	National BELGIUM		1	2		
	NDS POLAND		1			
	NDSch POLAND			2		
	National CZECH REPUBLIC		1			
	Malaysi MALAYSIA		1			
	a OEL					
	National ESTONIA		1			
	National CZECH REPUBLIC	C		2		
	National UNITED KINGDOM		1	2		
	National LITHUANIA		1			
	National CROATIA		1	2		

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

	<b>PNEC Limit</b>	<b>Exposure Route</b>	<b>Exposure Frequency</b>	<b>Remark</b>
polyethylen glycol CAS: 25322-68-3	0,016 mg/l	Fresh Water		

0,002 mg/l Marine water  
 15,91 mg/kg Freshwater sediments  
 15,91 mg/kg Marine water sediments

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

	<b>Worker Industrial</b>	<b>Worker Professional</b>	<b>Consumer</b>	<b>Exposure Route</b>	<b>Exposure Frequency</b>	<b>Remark</b>
calcium chloride CAS: 10043-52-4	10 mg/m3			Human Inhalation	Short Term, local effects	
	5 mg/m3			Human Inhalation	Long Term, local effects	
			5 mg/m3	Human Inhalation	Short Term, local effects	
			2,5 mg/m3	Human Inhalation	Long Term, local effects	
polyethylen glycol CAS: 25322-68-3	117,5 mg/m3			Human Inhalation	Long Term, systemic effects	
	66,57			Human Dermal	Long Term, systemic effects	

**8.2. Exposure controls**

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; EN ISO 374:

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.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to appropriate EN standards, like EN 136, 140, 143, 149, 14387 for information on selection and use of appropriate respiratory protection equipment.

Hygienic and Technical measures

Not available

Appropriate engineering controls:

Not available

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state: Liquid

Appearance: liquid

Color: light brown

Odour: Characteristic

Odour threshold: Not available

Melting point / freezing point: Not available

Initial boiling point and boiling range: 100 °C (212 °F)

Flammability: N.A.

Upper/lower flammability or explosive limits: Not available

Flash point: 100 °C (212 °F)

Auto-ignition temperature: Not available

Decomposition temperature: Not available

pH: 7.00

Viscosity: Not available  
Kinematic viscosity: Not available  
Solubility in water: dispersible  
Solubility in oil: insoluble  
Partition coefficient (n-octanol/water): Not available  
Vapour pressure: Not available  
Relative density: 1.10 g/cm<sup>3</sup>  
Vapour density: Not available

**Particle characteristics:**

Particle size: Not available

**9.2. Other information**

Miscibility: Not available  
Conductivity: Not available  
Explosive properties: ==  
No other relevant information

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Stable under normal conditions

**10.2. Chemical stability**

Stable under normal conditions

**10.3. Possibility of hazardous reactions**

None.

**10.4. Conditions to avoid**

Stable under normal conditions.

**10.5. Incompatible materials**

None in particular.

**10.6. Hazardous decomposition products**

None.

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**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Toxicological information of the mixture:**

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2(H319)
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
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:**

calcium chloride	a) acute toxicity	LD50 Oral Rat = 2301, mg/kg LD50 Skin Rabbit = 5000, mg/kg
2-methylpentane-2,4-diol	a) acute toxicity	LD50 Skin Rabbit = 12300, mg/kg LD50 Oral Rat = 3700, mg/kg

polyethylen glycol	a) acute toxicity	LD50 Skin Rabbit > 20 g/kg LD50 Oral Rat = 22 g/kg
zinc chloride	a) acute toxicity	LC50 Inhalation Rat <= 1975 mg/m3 10min LD50 Oral Rat = 1100 mg/kg LC50 Inhalation Rat <= 1975 mg/m3 10min

## 11.2 Information on other hazards

### Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

## SECTION 12: Ecological information

### 12.1. Toxicity

Biodegradability: The product is readily and rapidly degradable (biodegradation value >60%, OECD 301 D).

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

Eco-Toxicological Information:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

The product is classified: Aquatic Chronic 3(H412)

#### List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
calcium chloride	CAS: 10043-52-4 - EINECS: 233-140-8 - INDEX: 017-013-00-2	a) Aquatic acute toxicity : LC50 Fish = 4630 mg/L 96  a) Aquatic acute toxicity : EC50 Daphnia = 2400 mg/L 48 a) Aquatic acute toxicity : EC50 Algae = 2900 mg/L 72 a) Aquatic acute toxicity : NOEC Daphnia = 2000 mg/L 48 b) Aquatic chronic toxicity : LC50 Daphnia = 920 mg/L - 21 d b) Aquatic chronic toxicity : EC50 Daphnia = 610 mg/L - 21 d a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 10650 mg/L 96h a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna 2280000 µg/L 48h EPA
2-methylpentane-2,4-diol	CAS: 107-41-5 - EINECS: 203-489-0 - INDEX: 603-053-00-3	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 10500 mg/L 96h EPA  a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 10000 mg/L 96h EPA  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna 2700 mg/L 48h EPA

### 12.2. Persistence and degradability

N.A.

### 12.3. Bioaccumulative potential

N.A.

### 12.4. Mobility in soil

N.A.

### 12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.

### 12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

### 12.7 Other adverse effects

Not available

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## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

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

A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

Methods of disposal:

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

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

Do not dispose of waste into sewers.

Hazardous waste: Yes

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.

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## **SECTION 14: Transport information**

Not classified as dangerous in the meaning of transport regulations.

### **14.1. UN number or ID number**

Not Applicable

### **14.2. UN proper shipping name**

Not Applicable

### **14.3. Transport hazard class(es)**

Not Applicable

### **14.4. Packing group**

Not Applicable

### **14.5. Environmental hazards**

Not Applicable

### **14.6. Special precautions for user**

Not Applicable

Road and Rail (ADR-RID) :

Not Applicable

Air (IATA) :

Not Applicable

Sea (IMDG) :

Not Applicable

### **14.7. Maritime transport in bulk according to IMO instruments**

Not Applicable

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## **SECTION 15: Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

VOC (2004/42/EC) : N.A. g/l

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) n. 2020/878

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)



Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Provisions related to directive EU 2012/18 (Seveso III):

None

**Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:**

Restrictions related to the product: 3

Restrictions related to the substances contained: 75

**SVHC Substances:**

SVHC substances not present in a concentration  $\geq 0.1\%$  (w/w)

**German Water Hazard Class (WGK)**

2

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for the mixture.

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**SECTION 16: Other information**

Code	Description
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very 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/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
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
3.2/2	Calculation method
3.3/2	Calculation method
4.1/C3	Calculation method

If appropriate, specific provisions in relation to possible training for workers are mentioned in section 2. Any training related to safety in the workplace must in any case refer to a risk assessment that must be carried out by a company safety officer taking into account the specific operating and environmental conditions in which the products are used.

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  
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.

**\* Sheet model entirely changed in compliance to regulatory update.**