Safety Data Sheet dated: 09/03/2022 - version 3



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

1.1. Product identifier

Mixture identification: Trade name: RASCO 2K KMB KLASSISCH/A Trade code: 9050656

UFI: FR10-90K4-500U-2SEV

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

Recommended use: Intermediates

Uses advised against: Data not available

1.3. Details of the supplier of the safety data sheet

Company: Rasco Bitumentechnik GmbH, Otto-von-Guericke-Ring 11, D-65205 Wiesbaden, Germany phone: +49-05237 608 0 - fax: +49-05237 608 210 (office hours)

Responsible: rasco@bitumentechnik.de 1.4. Emergency telephone number

Poison emergency call Berlin +4930 30686700 (Advice in German and English)

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

Skin Sens. 1A May cause an allergic skin reaction.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

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

Pictograms and Signal Words



Hazard statements:

H317

May cause an allergic skin reaction.

Precautionary statements:

P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/clothing and eye/face protection.
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.

Contains:

2-octyl-2H-isothiazol-3-one

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 >= 0.1%.

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/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Mixture identification: RASCO 2K KMB KLASSISCH/A

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

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥0.0015 - <0.005 %	free crystalline silica (Ø <10 $\mu)$	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372	
≥0.0015 - <0.005 %	ethylene glycol	CAS:107-21-1 EC:203-473-3 Index:603-027- 00-1	Acute Tox. 4, H302; STOT RE 2, H373	01-2119456816-28-xxxx
≥0.0015 - <0.005 %	2-octyl-2H-isothiazol-3-one	CAS:26530-20-1 EC:247-761-7 Index:613-112- 00-5	Acute Tox. 2, H330 Acute Tox. 3, H311 Acute Tox. 3, H301 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Corrosive to the respiratory tract., M-Chronic:100, M-Acute:100 Specific Concentration Limits: $C \ge 0,0015\%$: Skin Sens. 1A H317 Acute Toxicity Estimate: ATE - Oral: 125mg/kg bw ATE - Dermal: 311mg/kg bw	

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.

In case of eyes contact:

Wash immediately with water.

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

Not available

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 (CO2).

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.

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

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

SECTION 8: Exposure controls/personal protection 8.1. Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
free crystalline silica (Ø <10 μ)	Nationa	I SWEDEN		0,100					SWEDEN, respirable aerosol
	Nationa	I NORWAY		0,100					K: Chemicals to be treated as carcinogenic.
	NDS	POLAND		2,000					frakcja wdychalna
	NDS	POLAND		0,300					frakcja respirabilna
	Nationa	I DENMARK		0,3		0,600			DENMARK, inhalable aerosol inhalable aerosol
	Nationa	I DENMARK		0,100		0,200			DENMARK, respirable aerosol respirable aerosol
	ACGIH	None		0,025					(R), A2 - Pulm fibrosis, lung cancer
	EU	None		0,025					A2 (R) - Pulm fibrosis, lung cancer
	Nationa	I AUSTRIA		0,150					A*
	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis
	Nationa	I SWEDEN		0,1					

	National FRANCE		0,1				
	National SPAIN		0,05				
	National DENMARK		0,3				
	National DENMARK		0,1				
	National FINLAND		0,05				
	National PORTUGAL		0,025				
	National NORWAY		0,3		0,9		
	National NORWAY		0,1		0,9		
	National BELGIUM		0,1				
	NDS POLAND		0,1				
	NDS NETHERLA	NDS	0,075				
	National CZECH REPUBLIC		0,1				
	National HUNGARY		0,15				
	Malaysi MALAYSIA a OEL		0,1				0.1 mg/m3 TWA (respirable dust)
	National ESTONIA		0,1				
	National SLOVAKIA		0,1		0,5		
	National SLOVENIA		0,1		- / -		
	National BULGARIA		0,07				
	National ROMANIA		0,1				
	National LITHUANIA	4	0,1				
	National CROATIA		0,1				
	National ITALY		0,100				
ethylene glycol	National SWEDEN		25	10	50	20	SWEDEN, Short-term value,
ethylene giycol							15 minutes average value
	National FINLAND		50	20	100	40	FINLAND, hud
	National NORWAY		52	20	104	40	NORWAY, H5
	National SWEDEN		25	10	50	20	SWEDEN, Short-term value, 15 minutes average value
	EU None		52	20	104	40	Skin
	National NORWAY		10	10	20	20	
	ACGIH None	С			100		(H), A4 - URT and eye irr
	National NORWAY		26		52		
	DFG GERMANY	С			52	20	
	ACGIH			25	10	50	A4 - Not Classifiable as a Human Carcinogen;upper respiratory tract irritation
	National SWEDEN		25	10			
	National FRANCE		52	20	104	40	
	National SPAIN		52	20	104	40	
	National GREECE		125	50	125	50	
	National DENMARK		26	10	125	50	
	National DENMARK		10	10			
	National FINLAND		50	20	100	40	
	National PORTUGAL		50	20	100	40	
	National NORWAY	-	52	20	104	40 40	
	NDS POLAND		52 15	20	104	-U	
	NDSCh POLAND		15		50		
	NDSCh POLAND National PORTUGAL	C					
					100 52	20	
	CHE SWITZERL		ED		52 104	20	
	NDS NETHERLA		52		104		
	NDS NETHERLA	ND2	10	10	104		
	National GERMANY		26	10			

	National CZECH		50					
	REPUE	ILIC						
	National HUNG	ARY	52		104			
	National SLOVA	KIA	52	20				
	National SLOVE		52	20	104	40		
	National UNITE KINGE		10	20	104	40		
	National UNITE KINGE		10	20	30	40		
	Malaysi MALA) a OEL	'SIA C			100	39,4		
	National ESTO	IIA	52	20	104	40		
	National LATVI	4	52	20	104	40		
	National CZECH REPUE				100			
	National SLOVA	KIA C			104			
	National CROA	ΓIA	52	20	104	40		
	EU		52	20	104	40	Indicative	Possibility of significant uptake through the skin
	National UNITE KINGE		52	20	104	40		
	National BULG	RIA	52	20	104	40		
	National ROMA	NIA	52	20	104	40		
	TUR TURKE	Y	52	20	104	40		
	National LITHU	ANIA	25	10	50	20		
2-octyl-2H-isothiazol-3- one	DFG GERM	ANY C			54	10		
	National GERM	ANY	0,05					
	CHE SWITZ	ERLAND			0,1			
	National SLOVE	NIA	0,05		0,05			
	DFG GERM	-			0,1			
	National SLOVE	NIA	0,05		0,1			
Predicted No Effect Cor	_	-						
Component	CAS-No.	PNEC Limit	Exposure R	oute	Exposure F	requency l	Remark	
ethylene glycol	107-21-1	10 mg/l 1 mg/l	Fresh Water Marine water					
		1,53 mg/kg						
		37 mg/kg	Freshwater sediments					
		10 mg/l	Intermittent	release				
		-	Microorganis sewage treat	ms in				
		3,7 mg/kg	Marine water sediments					
Derived No Effect Leve	I. (DNEL) CAS-No.	Morkey M	rkor Comer	Eve -	uro Douto	Eve		· Domark
Component	CAS-NO.	Industr Pro		Expos	ure Koule	Exposure	e Frequency	y Kemark
ethylene glycol	107-21-1	106 mg/kg	53 mg/kg	Humar	n Dermal	Long Terr effects	n, systemic	
			53 mg/kg	Humar	n Oral	Long Terr effects	n, systemic	
		35 mg/m3	7 mg/m3		n Inhalation	Long Terr effects	n, local	

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: paste Color: Black Odour: Characteristic Odour threshold: Melting point / freezing point: Not available Initial boiling point and boiling range: Not available Flammability: Not available Upper/lower flammability or explosive limits: Not available Flash point: Not available Auto-ignition temperature: Not available Decomposition temperature: Not available pH: 10.00 Viscosity: 40,000.00 cPs Kinematic viscosity: Not available Solubility in water: dispersible Solubility in oil: Not available Partition coefficient (n-octanol/water): Not available Vapour pressure: Not available Relative density: 1.20 g/cm3 Vapour density: Not available **Particle characteristics:** Particle size: Not available

9.2. Other information

Miscibility: Not available Conductivity: Not available Explosive properties: === Solid/gas flammability: == No other relevant information

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.

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	Not classified
		Based on available data, the classification criteria are not met
c) serious eye da	mage/irritation	Not classified
		Based on available data, the classification criteria are not met
d) respiratory or	skin sensitisation	The product is classified: Skin Sens. 1A(H317)
e) germ cell mut	agenicity	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 t	oxicity	Not classified
		Based on available data, the classification criteria are not met
h) STOT-single e	xposure	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 haza	ard	Not classified
		Based on available data, the classification criteria are not met
Toxicological information	on on main com	ponents of the mixture:
free crystalline silica (Ø <10 µ)	a) acute toxicity	LD50 Oral Rat = 500 mg/kg
ethylene glycol	a) acute toxicity	LC50 Inhalation Rat > 2,50000 mg/l 6h

2-octyl-2H-isothiazol-3- a) acute toxicity one

ATE - Dermal : 311 mg/kg bw
LD50 Oral Rat = 318 mg/kg
LD50 Skin Rabbit = 311 mg/kg
LC50 Inhalation Dust Rat = 0,58 mg/l 4h

ATE - Oral: 125 mg/kg bw

LD50 Skin Rat > 3500,00000 mg/kg

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

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

Component	Ident. Numb.	Ecotox Infos
ethylene glycol	CAS: 107-21-1 - EINECS: 203-473-3 - INDEX: 603-027- 00-1	a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48
		a) Aquatic acute toxicity: EC50 Algae > 100 mg/L 96
		a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96
		b) Aquatic chronic toxicity : NOEC Fish > 100 mg/L - 7 d
		b) Aquatic chronic toxicity : NOEC Daphnia > 100 mg/L - 7 d
		b) Aquatic chronic toxicity: NOEC Algae > 100 mg/L 72
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 41000 mg/L 9 IUCLID
		a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 14 mL/L 96h EP
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 27540 mg/L 9 EPA
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = $40761 \text{ mg/L} + 1000 \text{ mg/L}$
		a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 40000 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata = 16000 mg/L 96h IUCLID
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 46300 mg/L 48 IUCLID
		a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata 6500 mg/L 96h IUCLID
2-octyl-2H-isothiazol-3-one	CAS: 26530-20-1 - EINECS: 247-761-7 - INDEX: 613-112- 00-5	a) Aquatic acute toxicity : EC50 Daphnia = 0,42 mg/L 48
		a) Aquatic acute toxicity: EC50 Algae = 0,084 mg/L 72
		a) Aquatic acute toxicity : LC50 Fish = 0,036 mg/L 96
		a) Aquatic acute toxicity : LC50 Fish = 0,18 mg/L 96
		b) Aquatic chronic toxicity : NOEC Daphnia = 0,002 mg/L - 21 d
		b) Aquatic chronic toxicity : NOEC Fish = 0,022 mg/L - 28 d
		b) Aquatic chronic toxicity : NOEC Algae = 0,004 mg/L 72

12.2. Persistence and degradability

Not available

12.3. Bioaccumulative potential

Not available

12.4. Mobility in soil

Not available

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

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.

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 ($\ensuremath{\mathsf{ADR}}\xspace-\ensuremath{\mathsf{RID}}\xspace$) :

Not Applicable

Air (IATA) :

Not Applicable

Sea (IMDG) :

Not Applicable

14.7. Maritime transport in bulk according to IMO instruments

Not Applicable

Bitumen based product. When transported at elevated temperature, the product must be considered dangerous for all modes of transport.

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):

Not available

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:

No data available

German Water Hazard Class (WGK)

1

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description	
H302	Harmful if swallowed.	
H317	May cause an allergic skin reaction.	
H372	Causes damage to organs through prolong	ed or repeated exposure.
H373	May cause damage to organs through prolo	onged or repeated exposure if swallowed.
Code	Hazard class and hazard category	Description
Code 3.1/4/Oral	Hazard class and hazard category Acute Tox. 4	Description Acute toxicity (oral), Category 4
	5,	•
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4

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

Classification according to Regulation Classification procedure (EC) Nr. 1272/2008

3.4.2/1A

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 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.