

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

SK 3301.950, 3301.955, 3301.957 Kühlmedium für Chiller (Outdoor)

Version 4.1

Print Date 12.12.2022

Revision date / valid from 12.12.2022

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

1.1. Product identifier

	Trade name	:	SK 3301.95x Kühlmedium für Chiller (Outdoor)	
	UFI UFI code notified in	:	5Q3N-E05J-1005-SYCJ Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Germany, Denmark, Estonia, Spain, Finland, France, Greece, Croatia, Hungary, Ireland, Iceland, Italy, Liechtenstein, Lithuania, Luxembourg, Latvia, Malta, Netherlands, Norway, Poland, Portugal, Romania, Sweden, Slovenia, Slovakia	
1.2.	Relevant identified uses of	the	e substance or mixture and uses advised against	
	Use of the Substance/Mixture	:	Anti-freezing agents	
	Uses advised against	:	At this moment we have not identified any uses advised against	
1.3.	Details of the supplier of th	ie s	afety data sheet	
	Manufacturer/Supplier: Rittal GmbH & Co. KG Auf dem Stützelberg D-35745 Herborn			
	Informing department: Phone: +49 2772 505 9052 E-Mail: info@rittal.de			
1.4.	Emergency telephone num	beı		
	Germany: National Toxicology Center	:	+49 800 5121 5121 (24 h) +359 2 9154 409 (7/5)	
SEC	TION 2: Hazards identification	atic	on	
2.1.	Classification of the substa	anc	e or mixture	
	Classification according to	Re	gulation (EC) No 1272/2008	
	REGULATION (EC) No 12	272	/2008	
	Hazard class		Hazard category Target Organs Hazard statements	
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Acute	e toxicity (Oral)		Category 4		H302
	arget organ toxici eated exposure	ity	Category 2	Kidney	H373
For the f	ull text of the H-S	state	ments mentioned	in this Section, see Section	16.
Most imp	ortant adverse e	effec	ts		
Human	Health	:	See section 11 for	or toxicological information.	
	and chemical	:	See section 9/10	for physicochemical informa	ation.
hazards Potentia effects	l environmental	:	See section 12 fo	or environmental information	
2. Label ele	ments				
Labellin	g according to F	Regi	ulation (EC) No 1	272/2008	
Hazard	symbols	:		!>	
Signal w	ord	:	Warning		
Hazard	statements	:	H302 H373	Harmful if swallowed. May cause damage to org through prolonged or repe	
Precauti stateme					
Preventi	on	:	P260	Do not breathe dust/ fume	/ gas/ mist/
			P264 P270	vapours/ spray. Wash skin thoroughly afte Do not eat, drink or smoke	
Respons	Se	:	P301 + P312 + P	CENTER/ doctor if you fee	
			P314	mouth. Get medical advice/ attent	ion if you feel
Disposa	I	:	P501	unwell. Dispose of contents/ conta approved waste disposal p	
Hazardou	is components v	whic	h must be listed	on the label:	
	dial				
 ethane 					
• ethane					

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

			Classif (REGULATION (E	
Hazar	dous components	Amount [%]	Hazard class / Hazard category	Hazard statements
ethanediol				
Index-No. CAS-No.	: 603-027-00-1 : 107-21-1	>= 30 - < 50	Acute Tox.4 Oral STOT RE2	H302 H373
EC-No. EU REACH- Reg. No.	: 203-473-3 : 01-2119456816-28-xxxx		Acute toxicity estimate Acute oral toxicity: 500 mg/kg Acute dermal toxicity: 3500,01 mg/kg	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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If swallowed	: Rinse mouth with water. Immediately give plenty of water (if possible charcoal slurry). Never give anything by mouth to an unconscious person. If a person vomits when lying on his back,	
In case of eye contact	: Rinse thoroughly with plenty of water, also under the eyelids. Consult a physician.	
In case of skin contact	: Wash off immediately with plenty of water. If symptoms call a physician.	
If inhaled	: Move to fresh air. If symptoms call a physician.	
General advice	: Take off all contaminated clothing immediately.	

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		place him in the recovery position. Call a physician immediately.
	Protection of First Aid Responders	 First Aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists refer to Section 8 for specific personal protective equipment.
4.2.	Most important symptoms	and effects, both acute and delayed
	Symptoms	: Kidney disorders, See Section 11 for more detailed information on health effects and symptoms.
	Effects	: Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. See Section 11 for more detailed information on health effects and symptoms.
4.3.	Indication of any immedia	te medical attention and special treatment needed
	Treatment	: Treat symptomatically.
SEC	TION 5: Firefighting mea	sures
5.1.	Extinguishing media	
	Suitable extinguishing media Unsuitable extinguishing media	 water spray, Carbon dioxide (CO2), Alcohol-resistant foam, Dry powder High volume water jet
5.2.		om the substance or mixture
	Specific hazards during firefighting	: Combustible liquid. Vapors may produce explosive mixtures with air at temperatures over the flash point. Keep containers cool by spraying with water if exposed to fire, Heating will cause a pressure rise - with risk of bursting, Heating or fire
	Hazardous combustion products	 can release toxic gas. Carbon oxides, nitrous gases, Under certain fire conditions, traces of other toxic products cannot be excluded.
5.3.	Advice for firefighters	
	Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.
	Further advice	: Cool closed containers exposed to fire with water spray.
	TION 6: Accidental releas	
6.1.		tective equipment and emergency procedures
	Personal precautions	: Use personal protective equipment. Provide adequate

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ventilation. Keep away from heat and sources of ignition. Avoid contact with the skin and the eyes.

6.2. Environmental precautions

Environmental	: Do not flush into surface water or sanitary sewer system.
precautions	Avoid subsoil penetration. Local authorities should be advised
•	if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

Methods and materials for	Ensure adequate ventilation. Absorb with liquid-binding
containment and cleaning	material (sand, diatomite, acid binders, universal binders).
up	Treat recovered material as described in the section "Disposal
	considerations". Flush away residuals with plenty of water.

6.4. Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on personal protective equipment. See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	: Keep container tightly closed. Handle and open container with care. Provide sufficient air exchange and/or exhaust in work rooms. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.
Hygiene measures	: Take off all contaminated clothing immediately. Do not breathe gas/fumes/vapour/spray. Avoid contact with the skin and the eyes. Smoking, eating and drinking should be prohibited in the application area. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	: Keep in an area equipped with solvent resistant flooring.	
Advice on protection against fire and explosion	: Combustible liquid. Keep away from open flames, hot surfaces and sources of ignition.	
Further information on storage conditions	: Keep container tightly closed. Keep in a well-ventilated place. Keep away from heat. Store in cool place. Keep in a dry place. Product is hygroscopic.	
Advice on common storage	: Incompatible with strong bases and oxidizing agents. Keep away from food, drink and animal feedingstuffs.	
German storage class	: 10 Combustible liquids	
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7.3. Specific end use(s)

Specific use(s) : For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

(Component:	ethanediol	CAS-No. 107-21-1		
	Of	ther Occupational Exposure Limit Va	lues		
	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA): 20 ppm, 52 mg/m3 Indicative				
	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL): 40 ppm, 104 mg/m3 Indicative				
	Vapor and aerosol. 10 ppm, 26 mg/m3, (2)	ccupational Exposure Limits (AGW), as alues are complied with, there should be 7).			
	Germany. TRGS 900, O Vapor and aerosol. Can be absorbed throug	ccupational Exposure Limits (AGW), as h the skin.	amended, Skin designation:,		
8.2.	Exposure controls				
	Appropriate engineering	g controls			
	Refer to protective measu	res listed in sections 7 and 8.			
	Personal protective equ	ipment			
	Respiratory protection				
	Advice :	In case of insufficient ventilation, wea equipment. Required, if exposure limit is exceede Required if vapours or aerosol are re In case of brief exposure or low pollu apparatus. In case of intensive or lon apparatus that is independent of circu	ed (e.g. OEL). leased. tion use breathing filter lger exposure use breathing		
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	Recommended Filter type: Combination filter: A-P2	
Hand protection		
Advice	 Protective gloves complying with EN 374. As the product is a mixture of several substances, the du the glove materials cannot be calculated in advance and tested before use. Take note of the information given by the producer conce permeability and break through times, and of special wor conditions (mechanical strain, duration of contact). Protective gloves should be replaced at first signs of wea Recommended Material: 	has to be erning kplace
Material Break through time Glove thickness	 butyl-rubber >= 480 min 0,7 mm 	
Eye protection		
Advice	Tightly fitting safety goggles	
Skin and body protect	n	
Advice	Wear personal protective equipment.	
General advice	Do not flush into surface water or sanitary sewer system.	
	Avoid subsoil penetration. Local authorities should be advised if significant spillages be contained.	
CTION 9: Physical and	Avoid subsoil penetration. Local authorities should be advised if significant spillages be contained.	
-	Avoid subsoil penetration. Local authorities should be advised if significant spillages be contained.	
Information on basic phy	Avoid subsoil penetration. Local authorities should be advised if significant spillages be contained. chemical properties sical and chemical properties	
Information on basic phy Form Physical state	Avoid subsoil penetration. Local authorities should be advised if significant spillages be contained. :hemical properties :ical and chemical properties : liquid : liquid	
Information on basic phy Form Physical state Colour	Avoid subsoil penetration. Local authorities should be advised if significant spillages be contained. :hemical properties :ical and chemical properties : liquid : liquid : liquid : light yellow	
Information on basic phy Form Physical state Colour Odour	Avoid subsoil penetration. Local authorities should be advised if significant spillages be contained. :hemical properties :ical and chemical properties : liquid : liquid : light yellow : characteristic	
Information on basic phy Form Physical state Colour	Avoid subsoil penetration. Local authorities should be advised if significant spillages be contained. :hemical properties :ical and chemical properties : liquid : liquid : liquid : light yellow	
Information on basic phy Form Physical state Colour Odour	Avoid subsoil penetration. Local authorities should be advised if significant spillages be contained. :hemical properties :ical and chemical properties : liquid : liquid : light yellow : characteristic	
Information on basic phy Form Physical state Colour Odour Odour Threshold	Avoid subsoil penetration. Local authorities should be advised if significant spillages be contained. chemical properties sical and chemical properties : liquid : liquid : light yellow : characteristic : No data available	
Information on basic phy Form Physical state Colour Odour Odour Threshold Freezing point	Avoid subsoil penetration. Local authorities should be advised if significant spillages be contained. chemical properties sical and chemical properties : liquid : liquid : light yellow : characteristic : No data available : No data available	
Information on basic phy Form Physical state Colour Odour Odour Odour Threshold Freezing point Boiling point/boiling range	Avoid subsoil penetration. Local authorities should be advised if significant spillages be contained. :hemical properties :ical and chemical properties : liquid : liquid : liquid : light yellow : characteristic : No data available : 100 - 165 °C : No data available	
Information on basic phy Form Physical state Colour Odour Odour Threshold Freezing point Boiling point/boiling range Flammability Upper explosion limit / Up	Avoid subsoil penetration. Local authorities should be advised if significant spillages be contained. Ethemical properties sical and chemical properties : liquid : liquid : liquid : light yellow : characteristic : No data available : No data available : 100 - 165 °C : No data available her : 14 %(V) (20 °C) applies to anhydrous substance	

	applies to anhydrous substance
Flash point	: > 110 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Self-Accelerating decomposition temperature (SADT)	: No data available
рН	: 7 - 9 Concentration: 100 %
Viscosity Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Solubility(ies) Water solubility Solubility in other solvents	: soluble : No data available
Dissolution Rate	: No data available
Partition coefficient: n- octanol/water Dispersion Stability	No data availableNo data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: 1,047 g/cm3
Bulk density	: No data available
Relative vapour density	: No data available
Particle characteristics No data available	
9.2 Other information No data available	
SECTION 10: Stability and read	ctivity
10.1. Reactivity	
Advice	: No decomposition if stored and applied as directed.
10.2. Chemical stability	
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	Advice	: Stable under recommended storage conditions.
10.3.	Possibility of hazardous re	actions
	Hazardous reactions	: Reacts with alkalies. Incompatible with oxidizing agents.
10.4.	Conditions to avoid	
	Conditions to avoid	: Keep away from heat and sources of ignition.Keep away from direct sunlight.
10.5.	Incompatible materials	
	Materials to avoid	: Oxidizing agents, Strong acids and strong bases
10.6.	Hazardous decomposition	products
	Hazardous decomposition products	: Carbon oxides, Under certain fire conditions, traces of other toxic products cannot be excluded.

SECTION 11: Toxicological information

11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008

	Acute toxicity
	Oral
Acute toxicity estimate	: 1442 mg/kg) (Calculation method)
	Inhalation
	For this mixture is no data available. Please find this information in the listing of the component/components below in this section.
	Dermal
	For this mixture is no data available. Please find this information in the listing of the component/components below in this section.
	Irritation
	Skin
Result	: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
	Eyes
Result	: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.
	Sensitisation
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Result	: No sensitizing effect known.	
	CMR effects	
	CMR Properties	
Carcinogenicity	: It is not considered carcinogenic.	
	Contains no ingredient listed as a carcir	nogen
Mutagenicity	: It is not considered mutagenic. Contains no ingredient listed as a mutageneration	nen
Reproductive toxicity	: It is not considered toxic for reproductio	n.
	Contains no ingredient listed as toxic to	reproduction
	Specific Target Organ Toxicity	
	Single exposure	
Remarks	: The substance or mixture is not classific toxicant, single exposure.	ed as specific target organ
	Repeated exposure	
Remarks	: Target Organs: KidneyMay cause dama prolonged or repeated exposure.	age to organs through
	Other toxic properties	
	Repeated dose toxicity	
	; There is no data available for this prod Aspiration hazard	luct.
	No aspiration toxicity classification,	
Component:	ethanediol	
	otherior	CAS-NO. 10/-21-1
	Acute toxicity	CAS-No. 107-21-1
	Acute toxicity Inhalation	CAS-NO. 107-21-1
LC50	Acute toxicity Inhalation : > 2,5 mg/l (Rat; 6 h; dust/mist)	CAS-NO. 107-21-1
LC50	Inhalation	CAS-NO. 107-21-1
LC50 LD50	Inhalation : > 2,5 mg/l (Rat; 6 h; dust/mist)	
LD50	Inhalation : > 2,5 mg/l (Rat; 6 h; dust/mist) Dermal : > 3500 mg/kg (Mouse, male and female	
	Inhalation : > 2,5 mg/l (Rat; 6 h; dust/mist) Dermal : > 3500 mg/kg (Mouse, male and female	
LD50	Inhalation : > 2,5 mg/l (Rat; 6 h; dust/mist) Dermal : > 3500 mg/kg (Mouse, male and female	
LD50	Inhalation : > 2,5 mg/l (Rat; 6 h; dust/mist) Dermal : > 3500 mg/kg (Mouse, male and female hazards	e) pontain components upting properties according

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1. Toxicity

Component:	eth	anediol	CAS-No. 107-21-1
		Acute toxicity	
		Fish	
LC50	: 72.860 mg 72-1)	g/I (Pimephales promelas;	96 h) (static test; EPA OPP
	Toxicity to daphni	ia and other aquatic inve	ertebrates
EC50	: > 100 mg/	′l (Daphnia magna; 48 h) ((OECD Test Guideline 202)
		algae	
EC50	: 6500 - 130 Growth ra		pricornutum; 96 h) (End point:
		Bacteria	
EC20	: > 1995 mg (Analogy)		n) (ISO 8192)Read-across
		Chronic toxicity	
		Fish	
NOEC	: 15380 mg	/l (Pimephales Promelas;	7 d)
	Aq	uatic invertebrates	
NOEC	8590 mg/l	(Ceriodaphnia dubia (wat	ter flea); 7 d)
2.2. Persistence and	egradability		
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Component:	ethanediol	CAS-No. 107-21-1
	Persistence and degradability	
	Persistence	
Result	: (Related to: Water) non-significant hyc	drolysis
	Biodegradability	
Result	: 90 - 100 % (aerobic; activated sludge; Dissolved organic carbon (DOC); Expo Test Guideline 301A)Readily biodegra	osure Time: 10 d)(OECD
Bioaccumulative	potential	
Component:	ethanediol	CAS-No. 107-21-1
	Bioaccumulation	
Result	: log Kow ca1,36 (23 °C) ((calculated) : Bioaccumulation is not expected.))
Mobility in soil		
monomy moon		
Component:	ethanediol	CAS-No. 107-21-
Component:	ethanediol Mobility	CAS-No. 107-21-7
Component: Water	Mobility	CAS-No. 107-21-7
	Mobility The product is water soluble. The substance will not evaporate into a 	
Water	Mobility : The product is water soluble.	the atmosphere from the
Water Air Soil	Mobility : The product is water soluble. : The substance will not evaporate into a water surface. : Adsorption to solid soil phase is not example.	the atmosphere from the
Water Air Soil	Mobility The product is water soluble. The substance will not evaporate into a water surface. 	the atmosphere from the
Water Air Soil	Mobility : The product is water soluble. : The substance will not evaporate into a water surface. : Adsorption to solid soil phase is not example assessment	the atmosphere from the
Water Air Soil Results of PBT an	Mobility : The product is water soluble. : The substance will not evaporate into a water surface. : Adsorption to solid soil phase is not example assessment	the atmosphere from the cpected.
Water Air Soil Results of PBT an	Mobility Mobility : The product is water soluble. : The substance will not evaporate into twater surface. : Adsorption to solid soil phase is not exact surface. : Adsorption to solid soil phase is not exact surface. : Adsorption to solid soil phase is not exact surface. : Adsorption to solid soil phase is not exact surface. : Adsorption to solid soil phase is not exact surface. : Adsorption to solid soil phase is not exact surface.	the atmosphere from the spected. t t omponents considered to be toxic (PBT), or very
Water Air Soil Results of PBT an Data for the produ	Mobility : The product is water soluble. : The substance will not evaporate into a water surface. : Adsorption to solid soil phase is not exact advery assessment uct : This substance/mixture contains no consistent, bioaccumulative and persistent and very bioaccumulative (very higher.	the atmosphere from the spected. t t omponents considered to be toxic (PBT), or very
Water Air Soil Results of PBT an Data for the produ Result	Mobility : The product is water soluble. : The substance will not evaporate into a water surface. : Adsorption to solid soil phase is not exact advery assessment uct Results of PBT and vPvB assessment : This substance/mixture contains no coneither persistent, bioaccumulative and persistent and very bioaccumulative (whigher.	t toxic (PBT), or very
Water Air Soil Results of PBT an Data for the produ Result Endocrine disrupt	Mobility : The product is water soluble. : The substance will not evaporate into a water surface. : Adsorption to solid soil phase is not exact surface. ind vPvB assessment uct : This substance/mixture contains no coneither persistent, bioaccumulative and persistent and very bioaccumulative (versistent and vers) bioaccumulative (versistent bioaccumulative (versistent and vers) bioaccumulative (versistent bioaccumulative bioaccumulative (versistent bioaccumulative bioaccumulative (versistent bioaccumulative bioaccumulative (versistent bioaccumulative bioaccumulative (ve	the atmosphere from the spected. t mponents considered to be toxic (PBT), or very /PvB) at levels of 0.1% or in components considered to according to REACH Article

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7. Other adverse effects Data for the product Additional ecological information : Do not flush into surface water or sanitary sewer system. Result **SECTION 13: Disposal considerations** 13.1. Waste treatment methods Product Disposal together with normal waste is not allowed. Do not let : product enter drains. Can be incinerated, when in compliance with local regulations. Contaminated packaging : Empty remaining contents. Do not burn, or use a cutting torch on, the empty drum. Empty containers should be taken to local recyclers for disposal. No waste code according to the European Waste Catalogue European Waste : can be assigned for this product, as the intended use dictates Catalogue Number the assignment. The waste code is established in consultation with the regional waste disposer. **SECTION 14: Transport information** Not dangerous goods for ADR, RID and IMDG. 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. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

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14.6. Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Data for the product

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC)	:	Point Nos.: 3	
WGK (DE)	:	WGK 1: slightly hazardous to water; (according AwSV)	
German Störfallverordnung	:	Does not fall under the German StörfallV	
Other regulations	:	Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG). Take note of the national regulations on the protection of young people at work. This product, delivered to the European Economic Area, is compliant with Regulation (EC) 1907/2006 (REACh) as every substance/monomer it is composed of is excluded from regulation or exempted from registration or have been registered in the supply chain. Please note, that REACH requirements still might apply to	3
		import, re-import or specific uses.	
Component:			
Component: EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended	:	import, re-import or specific uses.	
EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as	:	import, re-import or specific uses. ethanediol CAS-No. 107-21-1 ; The substance/mixture does not fall under this legislation.	I

Notification status		
ethanediol:		
Regulatory List	Notification	Notification number
AICS	YES	
DSL EINECS	YES YES	203-473-3
EINECS ENCS (JP)	YES	(2)-230
IECSC	YES	(2) 200
INSQ	YES	
ISHL (JP)	YES	(2)-230
JEX (JP)	YES	(2)-230
KECI (KR) NZIOC	YES YES	KE-13169 HSR001534
ONT INV	YES	1131001334
PICCS (PH)	YES	
TCSI	YES	
TH INV	YES	55-1-00456
TH INV	YES	2905.31
TSCA VN INVL	YES YES	
	TL5	
15.2. Chemical safety ass	essment	
No data available		
SECTION 16: Other info	rmation	
Full text of H-Staten	nents referred to under sec	tions 2 and 3.
H302	Harmful if swallowed.	
H373		ans through prolonged or repeated
	exposure.	
Full text of the Note	s referred to under section	3.
Abbroviations and (Acronyme	
Abbreviations and A	an on ym o	
AU AIICL	Australia. Industri	al Chemicals Act (AIIC) List
BCF	bioconcentration f	actor
BOD	biochemical oxyg	en demand
CAS	Chemical Abstrac	ts Service
CLP	Classification, Lat	pelling and Packaging
CMR	carcinogenic, mut	agenic or toxic to reproduction
COD	chemical oxygen	demand
DNEL	derived no-effect	evel
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DSL	Canada. Environmental Protection Act, Domestic Substances Lis
EINECS	European Inventory of Existing Commercial Chemical Substance
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substanc List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
РВТ	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VN INVL	Vietnam. National Chemical Inventory
vPvB	very persistent and very bioaccumulative
urther information	

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification Hints for trainings	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data. The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information	:	The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.