BRENNTAG **ConnectingChemistry** SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 CITRIC ACID ANHYDROUS Version 7.1 Print Date 2022/09/15 Revision date / valid from 2022/09/15 MSDS code: MCIT100 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Trade name CITRIC ACID ANHYDROUS Substance name : citric acid CAS-No. 77-92-9 1 EC-No. 201-069-1 : EU REACH-Reg. No. : 01-2119457026-42-xxxx 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the : Food additive, Pharmaceutical industry, Cosmetics, personal care products, Detergent, Cleaning agent, Industrial use Substance/Mixture : At this moment we have not identified any uses advised Uses advised against against Details of the supplier of the safety data sheet 1.3. Company **Brenntag UK Limited** : Alpha House, Lawnswood Business Park GB LS16 6QY Leeds Telephone : +44 (0) 113 3879 200 Telefax +44 (0) 113 3879 280 : E-mail address : msds@brenntag.co.uk 1.4. **Emergency telephone number** Emergency telephone Emergency only telephone number (open 24 hours): : +44 (0) 1865 407333 (N.C.E.C. Culham) number **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation S.I. 2019/720 (GB CLP) Regulation S.I. 2019/720 (GB CLP) Hazard Hazard class Hazard category **Target Organs** statements H319 Eye irritation Category 2 ---Specific target organ toxicity Category 3 Respiratory system H335 - single exposure 80000000558 1/18 EN



CITRIC ACID ANHYDROUS For the full text of the H-Statements mentioned in this Section, see Section 16. Most important adverse effects Human Health 2 See section 11 for toxicological information. Physical and chemical : See section 9/10 for physicochemical information. hazards Potential environmental : See section 12 for environmental information. effects 2.2. Label elements Labelling according to Regulation S.I. 2019/720 (GB CLP) Hazard symbols Signal word Warning 2 Causes serious eye irritation. Hazard statements H319 1 May cause respiratory irritation. H335 Precautionary statements Prevention P261 Avoid breathing dust. 2 Wear eye protection/ face protection. P280 Response P304 + P340 + P312 IF INHALED: Remove person to fresh 1 air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention. Storage P403 + P233 Store in a well-ventilated place. Keep container tightly closed. Disposal P501 Dispose of contents/ container to an 5 approved waste disposal plant. Hazardous components which must be listed on the label: · citric acid 80000000558 / Version 7.1 2/18 ΕN



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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.

Dust can form an explosive mixture in air. Combustible material

SECTION 3: Composition/information on ingredients

3.1. Substances

				fication 019/720 (GB CLP))
Haza	rdous components	Amount [%]	Hazard class / Hazard category	Hazard statements
citric acid				
Index-No. CAS-No. EC-No. EU REACH- Reg. No.	: 607-750-00-3 : 77-92-9 : 201-069-1 : 01-2119457026-42-xxxx	<= 100	Eye Irrit.2 STOT SE3	H319 H335

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

General advice	: Take off all contaminated clothing immediately. If symptoms call a physician.	
If inhaled	: Remove to fresh air. If symptoms persist, call a physician.	
In case of skin contact	: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.	
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids,	
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6.1.	Personal precautions, prot	tective equipment and emergency procedures
SEC	TION 6: Accidental releas	se measures
	Special protective equipment for firefighters Further advice	 In the event of fire, wear self-contained breathing apparatus.Wear personal protective equipment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.Cool closed containers exposed to fire with water spray.
5.3.	Advice for firefighters	
	Specific hazards during firefighting Hazardous combustion products	 Combustible solids. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, Carbon dioxide (CO2)
5.2.	Special hazards arising fro	om the substance or mixture
	Suitable extinguishing media Unsuitable extinguishing media	Water spray, foam, dry powder or CO2.High volume water jet
SEC 5.1.	TION 5: Firefighting meas Extinguishing media	sures
	Treatment	: If in eyes or on skin, rinse well with water.Treat symptomatically.
4.3.	Indication of any immediat	te medical attention and special treatment needed
	Effects	: Dust in the eyes may cause mechanical irritation. May cause respiratory irritation. See Section 11 for more detailed information on health effects and symptoms.
	Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
4.2.	Most important symptoms	and effects, both acute and delayed
	Protection of First Aid Responders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing.
	If swallowed	: Rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If symptoms persist, call a physician.
		for at least 5 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

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	Personal precautions	: Use personal protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin and eyes.
6.2.	Environmental precautions	5
	Environmental precautions	: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.
6.3.	Methods and materials for	containment and cleaning up
	Methods and materials for containment and cleaning up	: Use mechanical handling equipment. Keep in suitable, closed containers for disposal.
	Further information	: Treat recovered material as described in the section "Disposal considerations".
6.4.	Reference to other section	S
	See Section 1 for emergen	
	See Section 13 for waste tr	on on personal protective equipment. reatment information.
SEC	See Section 13 for waste tr	reatment information.
	See Section 13 for waste tr	rage
	See Section 13 for waste tr TION 7: Handling and sto Precautions for safe handl	rage ing
	See Section 13 for waste tr TION 7: Handling and sto Precautions for safe handl	rage
	See Section 13 for waste tr TION 7: Handling and sto Precautions for safe handl	 rage ing : Keep container tightly closed. Use personal protective equipment. Avoid dust formation. Risk of dust explosion. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Emergency eye wash fountains and emergency
	See Section 13 for waste tr TION 7: Handling and sto Precautions for safe handl Advice on safe handling Hygiene measures	 rage ing Keep container tightly closed. Use personal protective equipment. Avoid dust formation. Risk of dust explosion. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off
7.1.	See Section 13 for waste tr TION 7: Handling and sto Precautions for safe handl Advice on safe handling Hygiene measures Conditions for safe storag	 rage ing Keep container tightly closed. Use personal protective equipment. Avoid dust formation. Risk of dust explosion. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.
7.1.	See Section 13 for waste tr TION 7: Handling and sto Precautions for safe handl Advice on safe handling Hygiene measures Conditions for safe storag Requirements for storage	 rage ing Keep container tightly closed. Use personal protective equipment. Avoid dust formation. Risk of dust explosion. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. e, including any incompatibilities
7.1.	See Section 13 for waste tr TION 7: Handling and sto Precautions for safe handl Advice on safe handling Hygiene measures Conditions for safe storage Requirements for storage areas and containers Advice on protection	 rage ing Keep container tightly closed. Use personal protective equipment. Avoid dust formation. Risk of dust explosion. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. e, including any incompatibilities Store in original container. Avoid dust formation. Normal measures for preventive fire

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	Storage temperature	: 10 - 30 °C
7.3.	Specific end use(s)	
	Specific use(s)	: Identified use: See table in front of appendix for a complete overview of identified uses.
SEC	TION 8: Exposure contr	ols/personal protection
8.1.	Control parameters	
	Derived No Effe	ect Level (DNEL)/Derived Minimal Effect Level (DMEL)
	No DNEL value was deriv	ved. :
	Othe	er Occupational Exposure Limit Values
	(Additional) : Information	Contains no substances with occupational exposure limit values.
		Contains no substances with occupational exposure limit values.
_	Component: Pr	citric acid CAS-No. 77-92-9 edicted No Effect Concentration (PNEC)
	Fresh water	: 0.44 mg/l
	Marine water	: 0.044 mg/l
	Sewage treatment plant (· · · ·
	Fresh water sediment	: 34.6 mg/kg d.w.
	Marine sediment	: 3.46 mg/kg d.w.
	Soil	: 33.1 mg/kg d.w.
.2.	Exposure controls	
	Appropriate engineering	controls
	Refer to protective measur	res listed in sections 7 and 8.
	Personal protective equi	pment
	Respiratory protection	
	Advice :	Required, if exposure limit is exceeded (e.g. OEL). Respiratory protection complying with EN 141. Recommended Filter type: Particle filter:P2
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Hand protection

Advice	 Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Protective gloves should be replaced at first signs of wear.
Material Break through time Glove thickness	
Material Break through time Glove thickness	
Material Break through time Glove thickness	
Material Break through time Glove thickness	: butyl-rubber : >= 8 h : 0.5 mm
Material Break through time Glove thickness	
Material Break through time Glove thickness	
Eye protection	
Advice	: Tightly fitting safety goggles (EN166)
Skin and body protect	tion
Advice	: Wear personal protective equipment.
Environmental exposi	ure controls
General advice	 Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such
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cases.

ormation on basic physical	l an	d chemical properties	
Form	:	granular	
Physical state	:	solid	
Colour	:	white	
Ddour	:	odourless	
Odour Threshold	:	Not applicable	
Melting point/range	:	153 °C	
Boiling point/boiling range	:	> 175 °C	
Flammability (solid, gas)	:	does not ignite	
Jpper explosion limit / Upper lammability limit	:	No data available	
Lower explosion limit / Lower lammability limit	:	No data available	
Flash point	:	345 °C	
Auto-ignition temperature	:	No data available	
Decomposition temperature	:	> 175 °C	
Self-Accelerating decomposition temperature SADT)	:	No data available	
bH	:	1.8 (25 °C) 5% solution	
/iscosity Viscosity, dynamic	:	Not applicable	
Viscosity, kinematic	:	Not applicable	
Flow time	:	No data available	
Solubility(ies) Water solubility	:	1450 g/l (20 °C)	
Solubility in other solvents	:	No data available	
Dissolution Rate	:	No data available	
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	Partition coefficient: n- octanol/water	:	log Pow: -1.80.2	
	Dispersion Stability	:	No data available	
	/apour pressure	:	< 0.001 hPa (20 °C)	
F	Relative density	:	No data available	
	Density	:	1.665 g/cm3 (20 °C)	
E	Bulk density	:	No data available	
F	Relative vapour density	:	No data available	
F	Particle characteristics No data available			
	ther information		Duct mou form combosive minture in cir	
	Explosives	•	Dust may form explosive mixture in air.	
	Dxidizing properties	:	not oxidising	
E	Evaporation rate	:	Not applicable	
ſ	Aolecular weight	:	192.12 g/mol	
SEC	FION 10: Stability and rea	ctiv	vity	
10.1.	Reactivity			
	Advice	: 1	lo decomposition if stored and applied as directed.	
10.2.	Chemical stability			
	Advice	: 5	Stable under recommended storage conditions.	
10.3.	Possibility of hazardous re	acti	ons	
	Hazardous reactions	: 1	lo dangerous reaction known under conditions of normal use.	
10.4.	Conditions to avoid			
	Conditions to avoid		void moisture.Avoid dust formation.Heat, flames and	
	Thermal decomposition		parks.Risk of dust explosion. • 175 °C	
10.5.	Incompatible materials			
	Materials to avoid		Strong bases, Oxidizing agents, Strong acids, Sodium nitrite, Potassium nitrite	
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10.6. Hazardous decomposition products

Hazardous decomposition : Fire may cause evolution of: Carbon oxides products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Component:	citric acid	CAS-No. 77-92-9
	Acute toxicity	
	Oral	
LD50	: 5400 mg/kg (Mouse, male and female	e) (OECD Test Guideline 401)
	Inhalation	
	No valid data available.	
	Dermal	
LD50	: > 2000 mg/kg (Rat, male and female)	(OECD Test Guideline 402)
	Irritation	
	Skin	
Result	: No skin irritation (Rabbit) (OECD Tes	t Guideline 404)
	Eyes	
Result	: Irritating to eyes.	
	Sensitisation	
Result	: not sensitizing	
	CMR effects	
	CMR Properties	
Carcinogenicity Mutagenicity	It is not considered carcinogenic.In vitro tests did not show mutagenic	
Teratogenicity Reproductive toxicity	 In vivo tests did not show mutagenic e Did not show teratogenic effects in an It is not considered toxic for reproduct 	imal experiments.
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	Genotoxicity in vitro
Result	: negative (Bacterial Reverse Mutation Test; Salmonella typhimurium; with and without metabolic activation) (OECD Test Guideline 471)
	Genotoxicity in vivo
Result	 negative (Chromosome aberration test in vivo; Rat, male and female) (Oral;) (Regulation (EC) No. 440/2008, Annex, B.22) negative (Mammalian Bone Marrow Chromosomal Aberration Test; Rat, male) (Oral;) (OECD Test Guideline 475)
	Teratogenicity
NOAEL	: > 272 mg/kg bw/day
Teratog.	(Mouse)(Oral)No adverse effects
	Specific Target Organ Toxicity
	Single exposure
Remarks	: No data available
	Repeated exposure
Inhalation	: Target Organs: Respiratory systemMay cause respiratory irritation.
	Other toxic properties
	Repeated dose toxicity
NOAEL	: 4000 mg/kg bw/day
LOAEL	: 8000 mg/kg bw/day
	(Rat)(Oral; 10 d)
	Aspiration hazard
	Not applicable,
Information on of	her hazards
Data for the prod	uct
	Endocrine disrupting properties
Assessment	: The substance/mixture does not contain components
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	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.
Component:	citric acid CAS-No. 77-92-9
1	Endocrine disrupting properties
Assessment :	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.
ECTION 12: Ecological inforn .1. Toxicity	nation
Component:	citric acid CAS-No. 77-92-9
	Acute toxicity
	Fish
	140 mg/l (Leuciscus idus melanotus; 48 h) (static test; OECD Test Guideline 203)
Toxicity to	o daphnia and other aquatic invertebrates
LC50 : 1,	,535 mg/l (Daphnia magna (Water flea); 24 h) (static test)
	algae
: N	No data available
.2. Persistence and degradabil	lity
	citric acid CAS-No. 77-92-9
Component:	
Component:	Persistence and degradability
Component:	Persistence and degradability Persistence
	Persistence

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Result	 97 % (aerobic; Related to: CO2 formation (% of the theoretical value).; Exposure Time: 28 d)(OECD Test Guideline 301B)Readily biodegradable.
Result	 100 % (aerobic; Related to: Dissolved organic carbon (DOC); Exposure Time: 19 d)(OECD Test Guideline 301E)Readily biodegradable.
Bioaccumulative po	otential
Component:	citric acid CAS-No. 77-92-
	Bioaccumulation
Result	: log Kow -1.801.61 : Bioaccumulation is not expected.
Mobility in soil	
Component:	
somponent.	citric acid CAS-No. 77-92-
Joinponent.	Citric acid CAS-No. 77-92- Mobility
Water	
	Mobility
Water	Mobility : The product is water soluble. : not volatile
Water Air	Mobility : The product is water soluble. : not volatile vPvB assessment
Water Air Results of PBT and	Mobility : The product is water soluble. : not volatile vPvB assessment
Water Air Results of PBT and	Mobility : The product is water soluble. : not volatile I vPvB assessment
Water Air Results of PBT and Data for the produc	Mobility : The product is water soluble. : not volatile I vPvB assessment :: :: Results of PBT and vPvB assessment :: :: 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
Water Air Results of PBT and Data for the produc Result	Mobility : The product is water soluble. : not volatile I vPvB assessment :: Results of PBT and vPvB assessment :: 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.
Water Air Results of PBT and Data for the produc Result	Mobility : The product is water soluble. : not volatile I vPvB assessment : t Results of PBT and vPvB assessment :: 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. citric acid CAS-No. 77-92-
Water Air Results of PBT and Data for the produce Result Component: Result	Mobility : The product is water soluble. : not volatile I vPvB assessment :: Results of PBT and vPvB assessment :: :: 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. :: Citric acid CAS-No. 77-92- Results of PBT and vPvB assessment :: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).
Water Air Results of PBT and Data for the produce Result	Mobility : The product is water soluble. : not volatile IvPvB assessment ct Results of PBT and vPvB assessment : 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. citric acid CAS-No. 77-92- Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB). nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB). nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB). nor properties
Water Air Results of PBT and Data for the produce Result Component: Result Endocrine disruptin	Mobility : The product is water soluble. : not volatile I vPvB assessment ct Results of PBT and vPvB assessment : 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. Citric acid CAS-No. 77-92- Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), This substance is not considered to be very persistent and very bioaccumulating (vPvB). mg properties :t



12.7. Other adverse effects

Data for the prod	luct	
		Additional ecological information
Result	:	, , ,
Result	:	Avoid subsoil penetration.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product	:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
Contaminated packaging	:	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.
European Waste Catalogue Number	:	No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN 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

Component:	citric acid	CAS-No. 77-92-9
EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended	: ; The substance/mixture does	not fall under this legislation.
EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC)	: ; The substance/mixture does	not fall under this legislation.
EU. Regulation 528/2012/EU concerning the making available on the market and use of biocidal products, Annex I: Active substances	Annex I or IA to Directive 98/8/ the active substance (The puri the minimum degree of purity of evaluated. The active substance market can be of equal or diffe	
EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I	: ; The substance/mixture does	not fall under this legislation.
15.2. Chemical safety assessme	ent	
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A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information Full text of H-Statements referred to under sections 2 and 3. Causes serious eye irritation. H319 H335 May cause respiratory irritation. Full text of the Notes referred to under section 3. Abbreviations and Acronyms **AU AIICL** Australia. Industrial Chemicals Act (AIIC) List BCF bioconcentration factor BOD biochemical oxygen demand CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging CMR carcinogenic, mutagenic or toxic to reproduction COD chemical oxygen demand DNEL derived no-effect level DSL Canada. Environmental Protection Act, Domestic Substances List EINECS European Inventory of Existing Commercial Chemical Substances 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 Substances 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 80000000558 / Version 7.1 16/18 ΕN



OFCD	New Zealand. Inventory of Chemicals					
OECD	Organisation for Economic Cooperation and Development					
OEL	occupational exposure limit Canada. Ontario Inventory List persistent, bioaccumulative and toxic					
ONT INV						
PBT						
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 reacti products or biological materials					
VN INVL	Vietnam. National Chemical Inventory					
vPvB	very persistent and very bioaccumulative					
	used to create this safety data sheet.					
and sources for data	substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.					
Mathada usad far	The electric for human health, physical and chamical					
Methods used for : product classification	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.					
	hazards and environmental hazards were derived from a combination of calculation methods and if available test data.					
product classification	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 Safet Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of					
product classification Hints for trainings :	 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 Safet 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. 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 					
product classification Hints for trainings :	 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 Safet 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. 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 					

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-			-			-	-				,

