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

1.1 Product identifier Trade name

Triple Acid Star

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

Cleaner Uses advised against No data available.

1.3 Details of the supplier of the safety data sheet

Address

Koch-Chemie GmbH Einsteinstr. 42 D-59423 Unna Telephone no. +49-2303-9 86 70-0 Fax no. +49-2303-9 86 70-26

Advice on Safety Data Sheet sdb info@umco.de

1.4 Emergency telephone number +353 1 809 2166 (National Poisons Information Centre)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H302 Acute Tox. 4; H312 Eye Dam. 1; H318 Met. Corr. 1; H290 Skin Corr. 1; H314

Classification information

Product is classified as "Corrosive" based on the extreme pH-value, see:

- Regulation 1272/2008 (CLP), Annex. I, number 3.2.2.2 / 3.2.3.1.2

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Danger

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



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Hazardous component(s) to be indicated on label: phosphoric acid 2-propylheptane-1-ol, ethoxylated hydrochloric acid Hydrofluoric acid Hazard statement(s) H290 May be corrosive to metals. H302+H312 Harmful if swallowed or in contact with skin. H314 Causes severe skin burns and eye damage. Precautionary statement(s) P260 Do not breathe vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. P280 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P390 Absorb spillage to prevent material damage.

2.3 Other hazards

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Addit	ional information		
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conc	entration		%
	REACH no					
1	phosphoric acid					
	7664-38-2	Met. Corr. 1; H290	>=	10,00 - <	25,00	wt%
	231-633-2	Skin Corr. 1B; H314				
	015-011-00-6	Acute Tox. 4; H302				
	01-2119485924-24	Eye Dam. 1; H318				
2	2-propylheptane-1-	ol, ethoxylated				
	160875-66-1	Eye Dam. 1; H318	>=	10,00 - <	25,00	wt%
	-	Acute Tox. 4; H302				
	-					
	-					
3	hydrochloric acid		pls. re	efer to footnote (2	2)	
	7647-01-0	Met. Corr. 1; H290	>=	5,00 - <	10,00	wt%
	231-595-7	Skin Corr. 1B; H314				
	017-002-01-X	Eye Dam. 1; H318				
	01-2119484862-27	STOT SE 3; H335				

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4	Hydrofluoric acid				
	7664-39-3	Acute Tox. 1; H310	<	0,50	wt%
	231-634-8	Acute Tox. 2; H330			
	009-003-00-1	Acute Tox. 2; H300			
	01-2119458860-33	Skin Corr. 1A; H314			
		Eye Dam. 1; H318			

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	В	Skin Irrit. 2; H315: C >= 10% Eye Irrit. 2; H319: C >= 10% Skin Corr. 1B; H314: C >= 25%	-	-
3	В	Met. Corr. 1; H290: C >= 0,1% Skin Irrit. 2; H315: C >= 1% Eye Dam. 1; H318: C >= 1% STOT SE 3; H335: C >= 10% Skin Corr. 1B; H314: C >= 10% Skin Corr. 1A; H314: C >= 25%	-	-
4	-	Eye Irrit. 2; H319: C >= 0,1% Skin Corr. 1B; H314: C >= 1% Eye Dam. 1; H318: C >= 1% Skin Corr. 1A; H314: C >= 7%	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

Acute toxicity estimate (ATE) values				
No	oral	dermal	inhalative	
1	500 mg/kg bodyweight			

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Adhere to personal protective measures when giving first aid. In case of accident or if you feel unwell, seek medical advice immediately. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. Poisonous symptoms can first be observed after several hours, therefore medical observation for at least 48 hours is necessary.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Call a doctor immediately. Do not use mouth-to-mouth or mouth-to-nose resuscitation. Irregular breathing/no breathing: artificial respiration.

After skin contact

Wash immediately with plenty of water for several minutes. Apply Calcium gluconate gel and massage into the skin until the pain subsides, in between rinse with water and apply fresh gel. Continue gel therapy for another 15 minutes after the pain has subsided. Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

After ingestion

Rinse the mouth thoroughly with water. If possible, administer the contents of 1-4 drinking ampoules of "frubiase® calcium T" (depending on the amount of hydrofluoric acid swallowed) in small sips. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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4.2 Most important symptoms and effects, both acute and delayed No data available.

4.3 Indication of any immediate medical attention and special treatment needed No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray jet; Foam; Carbon dioxide; Dry chemical extinguisher Unsuitable extinguishing media High power water jet

5.2 Special hazards arising from the substance or mixture In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); Hydrogen fluoride (HF); Phosphorus oxides

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit. Run-off water from fire fighting must not be discharged into drains or enter surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing. Do not inhale vapours/aerosols.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Flush away residues with water.

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area. Provide calcium gluconate gel

7.2 Conditions for safe storage, including any incompatibilities

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Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Prevent unauthorised access.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	phosphoric acid	7664-38-2		231-633-2	
	2000/39/EC				
	Orthophosphoric acid				
	WEL short-term (15 min reference period)	2	mg/m³		
	WEL long-term (8-hr TWA reference period)	1	mg/m³		
	List of Chemical Agents and Occupational Exposure	e Limit Values	s (Code of P	ractice)	
	Orthophosphoric acid				
	WEL short-term (15 min reference period)	2	mg/m³		
	WEL long-term (8-hr TWA reference period)	1	mg/m³		
	Comments	IOELV			
2	hydrochloric acid	7647-01-0		231-595-7	
	2000/39/EC				
	Hydrogen chloride				
	WEL short-term (15 min reference period)	15	mg/m³	10	ppm
	WEL long-term (8-hr TWA reference period)	8	mg/m³	5	ppm
	List of Chemical Agents and Occupational Exposure	e Limit Values	s (Code of P	ractice)	
	Hydrogen chloride				
	WEL short-term (15 min reference period)	15	mg/m³	10	ppm
	WEL long-term (8-hr TWA reference period)	8	mg/m³	5	ppm
	Comments	IOELV			
3	Hydrofluoric acid	7664-39-3		231-634-8	
	2000/39/EC				
	Hydrogen fluoride				
	WEL short-term (15 min reference period)	2,5	mg/m³	3	ppm
	WEL long-term (8-hr TWA reference period)	1,5	mg/m³	1,8	ppm
	2000/39/EC				
	Fluorides, inorganic				
	WEL long-term (8-hr TWA reference period)	2,5	mg/m³		
	List of Chemical Agents and Occupational Exposure	e Limit Values	s (Code of P	ractice)	
	Hydrogen fluoride (as F)				
	WEL short-term (15 min reference period)	2,5	mg/m³	3	ppm
	WEL long-term (8-hr TWA reference period)	1,5	mg/m³	1,8	ppm
	Comments	Sk, IOELV			

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value

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1	phosphoric acid			7664-38- 231-633-	_
	inhalative	Long term (chronic)	local	1	mg/m³
	inhalative	Short term (acut)	local	2	mg/m³
	inhalative	Long term (chronic)	systemic	10,7	mg/m³
2	hydrochloric acid			7647-01- 231-595-	
	inhalative	Short term (acut)	local	15	mg/m³
	inhalative	Long term (chronic)	local	8	mg/m³
3	Hydrofluoric acid			7664-39- 231-634-	
	inhalative	Long term (chronic)	systemic	1,5	mg/m³
	inhalative	Short term (acut)	systemic	2,5	mg/m³
	inhalative	Long term (chronic)	local	1,5	µg/m³
	inhalative	Short term (acut)	local	2,5	µg/m³

DNEL value (consumer)

No	Substance name			CAS / EC	; no
	Route of exposure	Exposure time	Effect	Value	
1	phosphoric acid			7664-38-	
				231-633-	
	oral	Long term (chronic)	systemic	0,1	mg/kg/day
	inhalative	Long term (chronic)	local	0,36	mg/m³
	inhalative	Long term (chronic)	systemic	4,57	mg/m³
2	Hydrofluoric acid	· · · · · · · · · · · · · · · · · · ·		7664-39-	3
				231-634-	8
	oral	Long term (chronic)	systemic	0,01	mg/kg/day
	oral	Short term (acut)	systemic	0,01	mg/kg/day
	inhalative	Long term (chronic)	systemic	0,03	mg/m ³
	inhalative	Short term (acut)	systemic	0,03	mg/m³
	inhalative	Long term (chronic)	local	0,2	mg/m³
	inhalative	Short term (acut)	local	1,25	mg/m ³

PNFC values

No	Substance name		CAS / EC no	
	ecological compartment Type		Value	
1	hydrochloric acid		7647-01-0	
			231-595-7	
	water	fresh water	0,036	mg/L
	water	marine water	0,036	mg/L
	water	Aqua intermittent	0,045	mg/L
	sewage treatment plant	-	0,036	mg/L

8.2 **Exposure controls**

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. combination filter A B E P3

Respirator

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

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Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves. Appropriate Material butyl Material thickness 0,5 mm > Breakthrough time > 120 min

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation	
liquid	
Form/Colour	
liquid	
red	
Odour	
characteristic	
pH value	
Value 0	
Boiling point / boiling range	
No data available	
Melting point/freezing point	
No data available	
Decomposition temperature	
No data available	
Flash point No data available	
Ignition temperature No data available	
Flammability No data available	
Lower explosion limit No data available	
Upper explosion limit No data available	
Vapour pressure	
No data available	
Relative vapour density	
No data available	
Relative density	
No data available	

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Density			
Value		1,16	g/cm³
Reference temperature		20	О°
Solubility in water			
Comments	miscible		
Solubility			
No data available			
Partition coefficient n-octanol/water (log val	ue)		
No data available			
Viscosity			
No data available			
Particle characteristics			
No data available			

9.2 Other information

Other information No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions Formation of hydrogen gas possible on contact with certain metals (f.e. aluminium)

10.4 Conditions to avoid None, if handled according to intended use.

10.5 Incompatible materials

Alkalis; Oxidizing agents; Corrosive to metals.

10.6 Hazardous decomposition products None, if handled according to intended use.

None, il handied decording to interface dec.

SECTION 11: Toxicological information

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

No	Product Name	
1	Triple Acid Star	
ATE	(Mixture)	643,67 mg/kg
Met	hod	Calculation method according Regulation (EC) No 1272/2008,
		(CLP), annex I, part 3, section 3.1.3.6.

Substance name		CAS no.	EC no.
phosphoric acid	-	7664-38-2	231-633-2
1	300	- 2000	mg/kg bodyweight
ies	rat		
od	OECD 423		
ce	ECHA		
	Substance name phosphoric acid ies od ce	phosphoric acid 7 0 300 cies rat od OECD 423	phosphoric acid 7664-38-2 0 300 - 2000 cies rat OCECD 423

Acute dermal toxicity (result of the ATE calculation for the mixture)

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No	Product Name		
1	Triple Acid Star		
ATE	(Mixture)	1050,42 mg/kg	
Meth	nod	Calculation method according Re	gulation (EC) No 1272/2008,
		(CLP), annex I, part 3, section 3.1	
٨	te dermal toxicity		
	lata available		
	te inhalational toxicity (result of the ATE	calculation for the mixture)	
	Product Name		
1	Triple Acid Star	The regult of the applied calculation	n mothed according to the
Con	iments	The result of the applied calculation European Regulation (EC) 1272/2	
		Part 3 of Annex I is outside the va	
		labelling of this mixture according	
			alation: > 20.000 ppmV (gases), >
		20 mg/l (vapours), > 5 mg/l (dusts	
			······································
	te inhalational toxicity lata available		
-	corrosion/irritation		
No c	lata available		
Seri	ous eye damage/irritation		
No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
Spee		rabbit	
Sou		ECHA	
	uation	strongly corrosive	
2	hydrochloric acid	7647-01-0	231-595-7
Spe		rabbit	
Meth	reference to	10% HCl OECD 405	
Sou		ECHA	
	uation	Irreversible effects on the eye	
	piratory or skin sensitisation	040	50 me
1	Substance name hydrochloric acid	CAS no. 7647-01-0	EC no. 231-595-7
Rout	te of exposure	Skin	231-395-7
Spe	•	guinea pig	
	reference to	98% HCI	
Meth		OECD 406	
Sou		ECHA	
	uation	non-sensitizing	
Gor	m cell mutagenicity	· · ·	
	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
		ECHA	
Sou	ice in the second s		
	uation/classification	Based on available data, the class	ification criteria are not met.
			ification criteria are not met. 231-595-7
Eval	uation/classification hydrochloric acid	Based on available data, the class 7647-01-0 ECHA	231-595-7
Eval 2 Sour	uation/classification hydrochloric acid rce uation/classification	Based on available data, the class 7647-01-0 ECHA Based on available data, the class	231-595-7 ification criteria are not met.
Eval 2 Sour Eval 3	uation/classification hydrochloric acid rce uation/classification Hydrofluoric acid	Based on available data, the class 7647-01-0 ECHA Based on available data, the class 7664-39-3	231-595-7
Eval Sour Eval 3 Meth	uation/classification hydrochloric acid rce uation/classification Hydrofluoric acid nod	Based on available data, the class 7647-01-0 ECHA Based on available data, the class 7664-39-3 OECD 471	231-595-7 ification criteria are not met.
Eval Sour Eval 3 Meth Sour	uation/classification hydrochloric acid rce uation/classification Hydrofluoric acid nod	Based on available data, the class 7647-01-0 ECHA Based on available data, the class 7664-39-3	231-595-7 ification criteria are not met. 231-634-8

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Repro	Reproduction toxicity				
No S	Substance name	CAS no.	EC no.		
1 p	phosphoric acid	7664-38-2	231-633-2		
Sourc	e	ECHA			
Evalua	ation/classification	Based on available data, the classified	cation criteria are not met.		
Carci	nogenicity				
	Substance name	CAS no.	EC no.		
1 ł	hydrochloric acid	7647-01-0	231-595-7		
Route	of exposure	inhalational			
Specie	es	rat			
Metho	bd	OECD 451			
Sourc	e	ECHA			
Evalua	ation/classification	Based on available data, the classified	cation criteria are not met.		
STOT	- single exposure				
	ta available				
OTOT					
	- repeated exposure				
No da	ita available				
Aspir	ation hazard				

No data available

11.2 Information on other hazards

Endocrine disrupting properties No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxi	Foxicity to fish (acute)				
No	Substance name	CAS no.		EC no.	
1	hydrochloric acid	7647-01-0		231-595-7	
LC5	0	3,25	- 3,5	mg/l	
Dura	ation of exposure		96	h	
Spe		Lepomis macrochirus			
with	reference to	100% HCI			
Sou	Source ECHA				
Tovi	city to fish (chronic)				
	lata available				
Toxi	city to Daphnia (acute)				
No	Substance name	CAS no.		EC no.	
1	phosphoric acid	7664-38-2		231-633-2	
EC5	0	>	100	mg/l	
Dura	ation of exposure		48	h	
Spe		Daphnia magna			
Meth		OECD 202			
Sou		ECHA			
2	hydrochloric acid	7647-01-0		231-595-7	
EC5			4,92	mg/l	
Dura	ation of exposure		48	h	
Spe		Daphnia magna			
with	reference to	36% HCI			
Meth	hod	OECD 202			

mg/l

mg/l

h

h

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Toxicity to algae (chronic) No data available

Method

Source

Bac	teria toxicity				
No	Substance name	CAS I	no.	EC no.	
1	phosphoric acid	7664-	38-2	231-633-2	
EC5	0	>	1000	mg/l	
Dura	ation of exposure		3	h	
Spe	cies	activated sludge			
Method		OECD 209			
Sou	rce	ECHA			
2	hydrochloric acid	7647-	01-0	231-595-7	
EC5	0	5	- 5,5	mg/l	
Dura	ation of exposure		3	h	
Spe	cies	activated sludge			
with	reference to	36% HCI			
Meth	nod	OECD 209			
Sou	rce	ECHA			

OECD 201

ECHA

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

Bio	Bioconcentration factor (BCF)				
No	Substance name	CAS	S no.	EC no.	
1	Hydrofluoric acid	766	4-39-3	231-634-8	
BCF		53	- 58		
Sou	rce	ECHA			

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment Popults of PBT and vPvB accossment

PBT assessment	According to the information provided in the supply chain, the	l
	mixture does not contain > 0.1% of a substance that is considered to	l
	be PBT.	l
		I
		I

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12.6 Endocrine disrupting properties No data available.

12.7 Other adverse effects

No data available.

12.7 Other information

Other information

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

14.

14.

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

	Class Classification code Packing group Hazard identification no. UN number Proper shipping name Technical name Tunnel restriction code	8 C1 II 80 UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. phosphoric acid hydrochloric acid E
.2	Label Transport IMDG Class	8
	Packing group UN number Proper shipping name Technical name	II UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. phosphoric acid hydrochloric acid
	EmS Label	F-A, S-B 8
.3	Transport ICAO-TI / IATA Class Packing group UN number Proper shipping name Technical name	8 II UN3264 Corrosive liquid, acidic, inorganic, n.o.s. phosphoric acid hydrochloric acid

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Label

14.4 Other information No data available.

14.5 Environmental hazards Information on environmental hazards, if relevant, please see 14.1 - 14.3.

8

- 14.6 Special precautions for user No data available.
- 14.7 Maritime transport in bulk according to IMO instruments Not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No 3

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product. Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed. The surfactants contained in this product comply with the DetVO 648/2004/EC.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

, H300	Fatal if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.

nt version : 1.0.0, issued: 21.1	2.2020 Replaced version: -, issued: -	Region: IE
H312	Harmful in contact with skin.	
H318	Causes serious eye damage.	
H330	Fatal if inhaled.	
H335	May cause respiratory irritation.	
1272/2008, Annex VI) B	dentification, classification and labelling of substances and mixtures ((E Some substances (acids, bases, etc.) are placed on the market in aqueor	-
	Some substances (acids, bases, etc.) are placed on the market in aqueou various concentrations and, therefore, these solutions require different cla	
	labelling since the hazards vary at different concentrations. In Part 3 entri have a general designation of the following type: 'nitric acid %'. In this supplier must state the percentage concentration of the solution on the la	case the
	otherwise stated, it is assumed that the percentage concentration is calcu	

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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