

Trade name: Triple Acid Star**Product no.:** 242999**Current version :** 1.0.0, issued: 21.12.2020**Replaced version: -**, issued: -**Region:** GB**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

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

For information in the event of an emergency during transport:

+44 1865 407333

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

GHS05



GHS07

Trade name: Triple Acid Star

Product no.: 242999

Current version : 1.0.0, issued: 21.12.2020

Replaced version: -, issued: -

Region: GB

Signal word

Danger

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.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	phosphoric acid		
	7664-38-2 231-633-2 015-011-00-6 01-2119485924-24	Met. Corr. 1; H290 Skin Corr. 1B; H314 Acute Tox. 4; H302 Eye Dam. 1; H318	>= 10.00 - < 25.00 wt%
2	2-propylheptane-1-ol, ethoxylated		
	160875-66-1 - - -	Eye Dam. 1; H318 Acute Tox. 4; H302	>= 10.00 - < 25.00 wt%
3	hydrochloric acid		pls. refer to footnote (2)
	7647-01-0 231-595-7	Met. Corr. 1; H290 Skin Corr. 1B; H314	>= 5.00 - < 10.00 wt%

Trade name: Triple Acid Star**Product no.:** 242999**Current version :** 1.0.0, issued: 21.12.2020**Replaced version:** -, issued: -**Region:** GB

	017-002-01-X 01-2119484862-27	Eye Dam. 1; H318 STOT SE 3; H335		
4	Hydrofluoric acid			
	7664-39-3 231-634-8 009-003-00-1 01-2119458860-33	Acute Tox. 1; H310 Acute Tox. 2; H330 Acute Tox. 2; H300 Skin Corr. 1A; H314 Eye Dam. 1; H318	< 0.50	wt%

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	B	Skin Irrit. 2; H315: C >= 10% Eye Irrit. 2; H319: C >= 10% Skin Corr. 1B; H314: C >= 25%	-	-
3	B	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®

Trade name: Triple Acid Star**Product no.:** 242999**Current version :** 1.0.0, issued: 21.12.2020**Replaced version:** -, issued: -**Region:** GB

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.

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

Trade name: Triple Acid Star

Product no.: 242999

Current version : 1.0.0, issued: 21.12.2020

Replaced version: -, issued: -

Region: GB

7.2 Conditions for safe storage, including any incompatibilities**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	
List of approved workplace exposure limits (WELs) / EH40				
Orthophosphoric acid				
	WEL short-term (15 min reference period)	2	mg/m ³	
	WEL long-term (8-hr TWA reference period)	1	mg/m ³	
2000/39/EC				
Orthophosphoric acid				
	WEL short-term (15 min reference period)	2	mg/m ³	
	WEL long-term (8-hr TWA reference period)	1	mg/m ³	
2	hydrochloric acid	7647-01-0	231-595-7	
2000/39/EC				
Hydrogen chloride				
	WEL short-term (15 min reference period)	15	mg/m ³	10 ppm
	WEL long-term (8-hr TWA reference period)	8	mg/m ³	5 ppm
List of approved workplace exposure limits (WELs) / EH40				
Hydrogen Chloride gas and aerosol mists				
	WEL short-term (15 min reference period)	8	mg/m ³	5 ppm
	WEL long-term (8-hr TWA reference period)	2	mg/m ³	1 ppm
3	Hydrofluoric acid	7664-39-3	231-634-8	
2000/39/EC				
Hydrogen fluoride				
	WEL short-term (15 min reference period)	2.5	mg/m ³	3 ppm
	WEL long-term (8-hr TWA reference period)	1.5	mg/m ³	1.8 ppm
2000/39/EC				
Fluorides, inorganic				
	WEL long-term (8-hr TWA reference period)	2.5	mg/m ³	
List of approved workplace exposure limits (WELs) / EH40				
Hydrogen fluoride (as F)				
	WEL short-term (15 min reference period)	2.5	mg/m ³	3 ppm
	WEL long-term (8-hr TWA reference period)	1.5	mg/m ³	1.8 ppm

DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	phosphoric acid			7664-38-2 231-633-2

Trade name: Triple Acid Star

Product no.: 242999

Current version : 1.0.0, issued: 21.12.2020

Replaced version: -, issued: -

Region: GB

	inhalative	Long term (chronic)	local	1	mg/m ³
	inhalative	Short term (acut)	local	2	mg/m ³
	inhalative	Long term (chronic)	systemic	10.7	mg/m ³
2	hydrochloric acid			7647-01-0 231-595-7	
	inhalative	Short term (acut)	local	15	mg/m ³
	inhalative	Long term (chronic)	local	8	mg/m ³
3	Hydrofluoric acid			7664-39-3 231-634-8	
	inhalative	Long term (chronic)	systemic	1.5	mg/m ³
	inhalative	Short term (acut)	systemic	2.5	mg/m ³
	inhalative	Long term (chronic)	local	1.5	µg/m ³
	inhalative	Short term (acut)	local	2.5	µg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	phosphoric acid			7664-38-2 231-633-2	
	oral	Long term (chronic)	systemic	0.1	mg/kg/day
	inhalative	Long term (chronic)	local	0.36	mg/m ³
	inhalative	Long term (chronic)	systemic	4.57	mg/m ³
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/m ³
	inhalative	Long term (chronic)	local	0.2	mg/m ³
	inhalative	Short term (acut)	local	1.25	mg/m ³

PNEC 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

Respirator A B E P3

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

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 work-

Trade name: Triple Acid Star**Product no.:** 242999**Current version :** 1.0.0, issued: 21.12.2020**Replaced version:** -, issued: -**Region:** GB

station 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	
Density	
Value	1.16 g/cm ³

Trade name: Triple Acid Star

Product no.: 242999

Current version : 1.0.0, issued: 21.12.2020

Replaced version: -, issued: -

Region: GB

Reference temperature	20 °C
Solubility in water	
Comments	miscible
Solubility	
No data available	
Partition coefficient n-octanol/water (log value)	
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.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Triple Acid Star
ATE (Mixture)	643.67 mg/kg
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
LD50	300	-	2000 mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Triple Acid Star

Trade name: Triple Acid Star

Product no.: 242999

Current version : 1.0.0, issued: 21.12.2020

Replaced version: -, issued: -

Region: GB

ATE (Mixture)	1050.42 mg/kg
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute dermal toxicity

No data available

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

No	Product Name
1	Triple Acid Star
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

Acute inhalational toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
Species	rabbit		
Source	ECHA		
Evaluation	strongly corrosive		
2	hydrochloric acid	7647-01-0	231-595-7
Species	rabbit		
with reference to	10% HCl		
Method	OECD 405		
Source	ECHA		
Evaluation	Irreversible effects on the eye		

Respiratory or skin sensitisation

No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
Route of exposure	Skin		
Species	guinea pig		
with reference to	98% HCl		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity

No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	hydrochloric acid	7647-01-0	231-595-7
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	Hydrofluoric acid	7664-39-3	231-634-8
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity

No	Substance name	CAS no.	EC no.
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Trade name: Triple Acid Star

Product no.: 242999

Current version : 1.0.0, issued: 21.12.2020

Replaced version: -, issued: -

Region: GB

1	phosphoric acid	7664-38-2	231-633-2
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
Route of exposure	inhalational		
Species	rat		
Method	OECD 451		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

Aspiration 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

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
LC50	3.25 - 3.5		mg/l
Duration of exposure	96		h
Species	Lepomis macrochirus		
with reference to	100% HCl		
Source	ECHA		

Toxicity to fish (chronic)	
No data available	

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
EC50	>		100 mg/l
Duration of exposure			48 h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	hydrochloric acid	7647-01-0	231-595-7
EC50	4.92		mg/l
Duration of exposure	48		h
Species	Daphnia magna		
with reference to	36% HCl		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)	

Trade name: Triple Acid Star

Product no.: 242999

Current version : 1.0.0, issued: 21.12.2020

Replaced version: -, issued: -

Region: GB

No data available

Toxicity to algae (acute)

No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
EC50	>	100	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
2	hydrochloric acid	7647-01-0	231-595-7
EC50		4.7	mg/l
Duration of exposure		72	h
Species	Chlorella vulgaris		
with reference to	36% HCl		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
EC50	>	1000	mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		
2	hydrochloric acid	7647-01-0	231-595-7
EC50	5	- 5.5	mg/l
Duration of exposure		3	h
Species	activated sludge		
with reference to	36% HCl		
Method	OECD 209		
Source	ECHA		

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential**Bioconcentration factor (BCF)**

No	Substance name	CAS no.	EC no.
1	Hydrofluoric acid	7664-39-3	231-634-8
BCF	53	- 58	
Source	ECHA		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

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.

Trade name: Triple Acid Star**Product no.:** 242999**Current version :** 1.0.0, issued: 21.12.2020**Replaced version:** -, issued: -**Region:** GB**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

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	8
Classification code	C1
Packing group	II
Hazard identification no.	80
UN number	UN3264
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Technical name	phosphoric acid hydrochloric acid
Tunnel restriction code	E
Label	8

14.2 Transport IMDG

Class	8
Packing group	II
UN number	UN3264
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Technical name	phosphoric acid hydrochloric acid
EmS	F-A, S-B
Label	8

14.3 Transport ICAO-TI / IATA

Class	8
Packing group	II
UN number	UN3264
Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s.
Technical name	phosphoric acid hydrochloric acid
Label	8

14.4 Other information

Trade name: Triple Acid Star**Product no.:** 242999**Current version :** 1.0.0, issued: 21.12.2020**Replaced version:** -, issued: -**Region:** GB

No data available.

14.5 Environmental hazards

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

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
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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.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H330	Fatal if inhaled.

Trade name: Triple Acid Star**Product no.:** 242999**Current version :** 1.0.0, issued: 21.12.2020**Replaced version:** -, issued: -**Region:** GB

H335

May cause respiratory irritation.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

B

Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Creation of the safety data sheet

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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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