CLEANSEAM FLUID

Date revised: 08.09.2020

Version: 7 / ENG

Master No. M-035

Print date: 08.09.2020

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SECTION 1: Identificatio	<u>n of the substand</u>	ce/mixture and of the
company/undertaking		
1.1. Product identifier		
Trade name		
CleanSeam.Fluid		04 2440 405024 24 2020
REACH-Registration no.		01-2119485924-24-XXXX
Use of the substance/mixture	ls Doscaling compound	/ Scale solvent, Corrosion inhibitors, pH-corrective agent,
Processing aid, Degreasing agent,		
<b>1.3. Details of the supplier of t</b>		
Address	ne sarety data sheet	
CleanSeam GmbH & Co.KG		
Speditionstraße 8		
40221 Düsseldorf		
E-mail address		weld@cleanseam.de
1.4. Emergency telephone nun	nber	
Poison center Bonn: +49 0228 / 19	9 240	
SECTION 2. Hazarda ida	atification ***	
SECTION 2: Hazards iden 2.1. Classification of the substa		
Classification (Regulation (EC) No		
Met. Corr. 1	. 12/2/2000/	H290
Acute Tox. 4		H302
Skin Corr. 1B		H314
2.2. Label elements		
Labelling according to regulation	(EC) No 1272/2008	
Hazard pictograms ***		
$\wedge$		
P		
<u>~~ ~ ~ / / / / / / / / / / / / / / / / </u>		
Signal word		
Danger Hazard statements ***		
H302		Harmful if swallowed.
H290		May be corrosive to metals.
H314		Causes severe skin burns and eye damage.
Precautionary statements		
P260		Do not breathe dust/fume/gas/mist/vapours/spray.
P280		Wear protective gloves/protective clothing/eye
		protection/face protection.
P303+P361+P353		IF ON SKIN (or hair): Take off immediately all
		contaminated clothing. Rinse skin with water/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.
P304+P340		IF INHALED: Remove person to fresh air and keep
5004 5000 500 ·		comfortable for breathing.
P301+P330+P331	-	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
Further supplemental information	п	
Restricted to professional users		

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#### 2.3. Other hazards PBT and vPvB

You find the results of PBT and vPvB assessment in section 12.

# **SECTION 3: Composition/information on ingredients**

3.2. Mixtures				
Hazardous ingredients (Regulation (EC) No. 1272/2008)				
Phosphoric acid				
CAS No.		7664-38-2		
EINECS no.		231-633-2		
REACH-Registration no. 01-2119485924-24-XXXX		01-2119485924-24-XXXX		
Concentration		< 50%		
Met. Corr. 1		H290		
Acute Tox. 4		H302		
Skin Corr. 1B		H314		
Concentration limits (Regulation (EC) No. 1272/2008)				
Skin Corr. 1B	H314	>= 25 < 25		
Eye Irrit. 2	H319	<= 10 < 25		
Skin Irrit. 2	H315	<= 10 < 25		
Complete text of H-phrases in Chapter 1	16.			

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

## **General information**

Remove affected person from danger area, lay him down. Remove contaminated, soaked clothing immediately and dispose of safely. Irregular breathing/no breathing: artificial respiration. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove the casualty into fresh air and keep him calm. Summon a doctor immediately.

#### After skin contact

Wash immediately with plenty of water for several minutes. Summon a doctor immediately.

## After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

## After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

Causes burns.

Risk of pneumonia; Risk of stomach perforation

4.3. Indication of any immediate medical attention and special treatment needed

Keep under medical supervision for at least 48 hours.

# SECTION 5: Firefighting measures

## 5.1. Extinguishing media

## Suitable extinguishing media

Carbon dioxide, Water spray jet, Dry powder, Foam, Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

## Non suitable extinguishing media

Full water jet

## 5.2. Special hazards arising from the substance or mixture

Reactions with metals, with evolution of hydrogen. In the event of fire the following can be released: Phosphorus oxides (e.g. P2O5); Phosphorus trihydride (phosphine)

## 5.3. Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit.

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Cool endangered containers with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

# **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. High risk of slipping due to leakage/spillage of product.

## **6.2.** Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. Prevent spread over a wide area (e.g. by containment or oil barriers).

## 6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Neutralization agent use. When picked up, treat material as prescribed under Section 13 "Disposal".

## 6.4. Reference to other sections

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

Keep container tightly closed. Handle and open container with care. Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). When diluting, always stir product into water. Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Keep seperated from food-stuffs and feed-stocks. At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols.

## Advice on protection against fire and explosion

No special measures required.

## 7.2. Conditions for safe storage, including any incompatibilities

Provide acid-resistant floor. Keep only in the original container. Do not store together with: Alkalis, Reducing agents, Metals storage category TRGS 510 8 B

Not combustible corrosive hazardous substances

Keep container tightly closed and in a well-ventilated place. Protect from heat/overheating.

#### 7.3. Specific end use(s)

No information available.

## **SECTION 8: Exposure controls/personal protection**

8.1. Control parame Exposure limit values					
•					
Phosphoric acid			TREE 000		
List			TRGS 900		
Туре			AGW		
Long term exposure li	mit		2 mg/m³		
Maximum limit value:	2(I)				
Pregnancy group: Y					
Status: 4.4.2013					
Remarks: DFG, AGS					
Derived No/Minimal	Effect Levels (DNEL/DM	EL)			
Phosphoric acid					
DNEL					
Conditions	Worker	Long term		inhalative	Local effects
Concentration	2,92 ı	mg/m³			
DNEL					
Conditions	General Population	Long term		inhalative	Local effects
Concentration	0,73 ı	mg/m³			

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Chloroprene

>= 0,6 mm

>= 480 min

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## 8.2. Exposure controls

## Respiratory protection in accordance with DIN EN 136 / DIN EN 140 / DIN EN 143 / DIN EN 149

Breathing apparatus in the event of aerosol or mist formation. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Short term: filter apparatus, combination filter E-P2; Short term: filter apparatus, combination filter B-P2

Hand protection in accordance with DIN EN 374 Appropriate Material Material thickness Breakthrough time Eye protection in accordance with DIN EN 166 Tightly fitting safety glasses

**Body protection in accordance with DIN EN 465** Acid-resistant protective clothing

#### **SECTION 9: Physical and chemical properties** 9.1. Information on basic physical and chemical properties Appearance Form liquid Colour colourless Odour odourless **Odour threshold** Remarks No data available pH value Value < 1 Concentration/H2O 23 g/l Temperature 20 °C Melting point/freezing point Remarks No data available Initial boiling point and boiling range Value appr. 140 °C Flash point Remarks Not applicable **Evaporation rate** No data available Remarks Flammability (solid, gas) Not ignitable Upper/lower flammability or explosive limits Remarks Not applicable Vapour pressure No data available Remarks Vapour density No data available Remarks **Relative density** 1,335 g/ml Value Solubility(ies) Medium Water Remarks Completely miscible Partition coefficient: n-octanol/water Not applicable Auto-ignition temperature Not applicable Remarks **Decomposition temperature** No data available Remarks Viscosity

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**Explosive properties** Remarks

This product is not potentially explosive.

**Oxidising properties** evaluation 9.2. Other information No additional information available.

not oxidizing

# **SECTION 10: Stability and reactivity**

10.1. Reactivity see Possibility of hazardous reactions 10.2. Chemical stability No decomposition if used as prescribed. 10.3. Possibility of hazardous reactions Corrosive to metals. Reactions with reducing agents. Reactions with alkalies. Reactions with metals, with evolution of hydrogen. 10.4. Conditions to avoid To avoid thermal decomposition do not overheat. 10.5. Incompatible materials Reducing agents, metals, Alkalis, Ammonia 10.6. Hazardous decomposition products Phosphorus oxides (e.g. P2O5), Hydrogen

## **SECTION 11: Toxicological information** \*\*\*

11.1. Information on toxicological effects	
Acute oral toxicity (Components) ***	
Phosphoric acid	
Species	rat
LD50	>= 300 mg/kg
Method	WoE approach
Acute dermal toxicity (Components)	
Phosphoric acid	
Species	rabbit
LD50	2740 mg/kg
Acute inhalative toxicity (Components)	
Phosphoric acid	
No information available.	
Skin corrosion/irritation	
evaluation	corrosive
Corrosive action on the skin and mucous membrane.	
Serious eye damage/irritation	
evaluation	strongly corrosive
Sensitization (Components)	
Phosphoric acid	
not investigadet - substance is corrosive	
Mutagenicity (Components)	
Phosphoric acid	
Based on available data, the classification criteria are not m	et.
Carcinogenicity (Components)	
Phosphoric acid	
Based on available data, the classification criteria are not m	et.
Reproduction toxicity (Components)	
Phosphoric acid	
Based on available data, the classification criteria are not m	et.

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Specific Target Organ Toxicity (STOT) Single exposure May cause respiratory irritation. **Repeated exposure** No data available Aspiration hazard No information available. Other information

Strong caustic effect in the mouth and throat and danger of perforation of the esophagus and stomach.

## **SECTION 12: Ecological information**

12.1. Toxicity Fish toxicity (Components) **Phosphoric acid** Species Gambusia affinis LC50 138 mg/l 96 h Duration of exposure Daphnia toxicity (Components) **Phosphoric acid** Species Daphnia magna > 100 mg/l EC50 Duration of exposure 48 h Method **OECD 202** Remarks Static system Species Daphnia magna NOEC 56 mg/l Duration of exposure 48 h **OECD 202** Method Algae toxicity (Components) Phosphoric acid Species Desmodesmus subspicatus EC50 > 100 mg/l Duration of exposure 72 h **OECD 201** Method Remarks Static system Species Desmodesmus subspicatus NOEC 100 mg/l Duration of exposure 72 h Method **OECD 201 Bacteria toxicity (Components)** Phosphoric acid Species activated sludge EC50 270 mg/l 12.2. Persistence and degradability **Biodegradability (Components) Phosphoric acid** Inorganic product, cannot be eliminated from the water by biological purification processes. 12.3. Bioaccumulative potential Partition coefficient: n-octanol/water Not applicable 12.4. Mobility in soil Will not adsorb on soil. 12.5. Results of PBT and vPvB assessment No valuation for anorganic substances necessary. 12.6. Other adverse effects

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### Behaviour in environment compartments

Harmful effect due to pH shift. Can contribute to eutrophication of waters.

#### Behaviour in sewers [waste treatment plants]

The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

## Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

# **SECTION 14: Transport information**

Land transport ADR/RID	
14.1. UN number	1805
14.2. UN proper shipping name	PHOSPHORIC ACID, SOLUTION
14.3. Transport hazard class(es)	8
Label	8
14.4. Packing group	III
14.5. Environmental hazards	-
Tunnel restriction code	E
14.6. Special precautions for user	No information available.
14.7. Transport in bulk according to Annex II of MARPOL	No information available.
and the IBC Code	
Marine transport IMDG/GGVSee	
14.1. UN number	1805
14.2. UN proper shipping name	PHOSPHORIC ACID, SOLUTION
14.3. Transport hazard class(es)	8
14.4. Packing group	III
14.5. Environmental hazards	-
EmS	F-A, S-B
14.6. Special precautions for user	No information available.
14.7. Transport in bulk according to Annex II of MARPOL	No information available.
and the IBC Code	
Air transport ICAO/IATA	
14.1. UN number	1805
14.2. UN proper shipping name	PHOSPHORIC ACID, SOLUTION
14.3. Transport hazard class(es)	8
14.4. Packing group	III
14.5. Environmental hazards	-
14.6. Special precautions for user	No information available.
14.7. Transport in bulk according to Annex II of MARPOL	No information available.
and the IBC Code	

# **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Water Hazard Class (Germany) Water Hazard Class (Germany) WGK 1 Classification according to Betriebssicherheitsverordnung (BetrSichV) not applicable VOC-Content according to directive 2010/75/EU VOC (EU) 0 %

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## SVHC

The product does not contain substances of very high concern (SVHC).

## **Registration status**

**Phosphoric acid** AICS (Australian Inventory of Chemical listed Substances) DSL (Canada) listed IECSC (China) listed listed EINECS ENCS (Japan) listed listed ECL (Korea) PICCS (Philippines) listed listed TSCA (USA)

#### **15.2.** Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

# **SECTION 16: Other information**

Hazard statements listed in Chapter 3 H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. **CLP categories listed in Chapter 3** Acute Tox. 4 Acute toxicity, Category 4 Substance or mixture corrosive to metals, Category 1 Met. Corr. 1 Skin Corr. 1B Skin corrosion, Category 1B Abbreviations AC: Article Category ACGIH: American Conference of Governmental Industrial Hygienists ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure ADNR: Accord européen relatif au transport international des marchandises dangereuses par navigation sur le Rhin ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route AGW: Arbeitsplatzgrenzwert AICS: Australian Inventory of Chemical Substances AOX: adsorbable organically bound halogens ARW: Arbeitsplatzrichtwert (Germany) ASTM: American Society for Testing And Materials ATE: acute toxicity estimates ATP: Adaptation to technical and scientific progress AWsV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Germany) BAR: Biologischer Arbeitsstoff-Referenzwert BCF: bioconcentration factor BetrSichV: Betriebssicherheitsverordnung (Germany) BG: Berufsgenossenschaft (Germany) BGW: Biologischer Grenzwert **BLW: Biologischer Leitwert** BOD: biochemical oxygen demand Lowest lethal concentration LOAEC: Lowest Observable Adverse Effect Concentration LOAEL: Lowest observed adverse effect level LOEC: Lowest observed effect concentration LOEL: Lowest observed effect level Log pow: logarithm of the distribution coefficient n-octanol / water LQ: limited quantity MAC: Maximale aanvaarde concentratie (Netherlands) MAK: Maximale Arbeitsplatz-Konzentration MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 (MARPOL: Marine Pollution) MEL: Maximum exposure limits MITI: Ministry of International Trade and Industry (Japan)

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n.a.g.: nicht anders genannt						
NATEC: Naval Air Technical Data and	Engineering Service Comma	and				
	LOAEC: Lowest Observable Adverse Effect Concentration					
NLP: No-longer Polymer						
NOAEC: No observed adverse effect	concentration					
NOAEL: no observable adverse effect	t level					
NOEC: No observable effect concent	ration					
NOEL: No observable effect level						
NOELR: no observable effect loading	rate					
NZIOC: New Zealand Inventory of Ch						
OECD: Organisation for Economic Co		nt				
OEL: Occupational exposure limit						
OELV: Occupational exposure limit v	alue					
OES: Occupational exposure standar	ds					
PBT: Persistent, Bioaccumulative and	d Toxic					
PC: Product Category						
PEC: Predicted environmental conce	ntration					
PICCS: Philippine Inventory of Chem	icals and Chemical Substance	es				
PNEC: predicted no effect concentra	tion					
PNEC: Predicted no effect concentra	tion					
pOW: Octanol-water partition coeffi	cient					
PROC: Process Category						
REACH: Registration, Evaluation, Aut	cohorisation and Restriction	of Chemicals				
RID: Règlement concernant le transp	oort international ferroviaire	de marchandises dangereuses	5			
RTECS: Registry of Toxic Effects of Ch						
SAE: Society of Automotive Engineer	ſS					
STP: Sewage treatment plant						
SU: Sector of Use						
SUVA: Schweizerische Unfallversiche						
SVHC: Substances of very high conce						
TA Luft: Technische Anleitung zur Re	inhaltung der Luft					
TCCL: Toxic Chemical Control Law						
ThOD: theoretical oxygen demand						
TRA: targeted risk assessment						
TRG: Technische Regeln Druckgase (						
TRgA: Technische Regeln für gefährli TRGS: Technische Regeln für Gefahrs						
TRK: Technische Richtkonzentration	stone					
TSCA: Toxic Substances Control Act (						
UN: United Nations	USA)					
VbF: Verordnung über brennbare Flü	issigkeiten					
VCI: Verband der Chemischen Indust	-					
VDE: Verband der Elektrotechnik, Ele		chnik e V				
VDI: Verein Deutscher Ingenieure						
VLEP: Valeurs Limites d'exposition P	rofessionnelle					
VOC: Volatile Organic Compound						
vPvB: Very persistent and very bioac	cumulative					
VwVwS: Verwaltungsvorschrift wass						
WEL: Workplace exposure limit	-					
WGK: water hazard class (Germany)						
WHO: World Health Organization						
WoE: Weight of Evidence						

## Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\* This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.