


Print date: 01.01.2019 / revised on: 01.07.2020

1. Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier WESSOCLEAN AQUA TYP 1 <u>Powder concentrate</u>
1.2. Relevant identified uses of the substance or mixture and uses advised against Well regeneration agent
1.3. Details of the supplier of the safety data sheet WESSO AG Wacholderweg 6 D-90518 Altdorf Phone: 0049 (0)9187 / 7069711 Telefax: 0049 (0)9187 / 7069712 Mail: contact@wesso.com
1.4. Emergency number: WESSO AG: phone +49 (0) 9187 / 7069711
2. Hazards identification
2.1. Classification of the substance or mixture According to Regulation (EC) No 1272/2008: Eye Irrit. 2, H319
2.2. Label elements  Irritant H 319 Causes serious eye irritation P 305+351+338 In case of contact with eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if possible. Continue rinsing.
2.3. Other hazards Avoid skin contact with the concentrated product.
3. Composition/information on ingredients
3.1. Mixtures <u>Citric acid:</u> CAS No 77-92-9 EC No 201-069-1 Percentage: > 70 % Classification according to Regulation (EC) No 1272/2008: Eye irritation, category 2, H319

4. First aid measures	
4.1. Description of first aid measures	<p>After contact with eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.</p> <p>After ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Consult a physician.</p> <p>After contact with skin: In case of contact with skin wash off with soap and water.</p> <p>After inhalation: Health injuries are not known or expected under normal use.</p> <p>General information: Remove and wash contaminated clothing before re-use.</p>
4.2. Most important symptoms and effects, both acute and delayed	Not known.
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptoms.
5. Firefighting measures	
5.1. Extinguishing media	<p>S Suitable extinguishing media: foam, extinguishing powder, carbon dioxide, water</p> <p>Extinguishing media which must not be used for safety reasons: Not known</p>
5.2. Special hazards arising from the substance or mixture	In the event of fire, the formation of hazardous gases or vapors is possible (use respiratory protection in the hazardous area). Precipitate escaping vapors with water.
5.3. Advice for firefighters	Use breathing apparatus with independent air supply. Protective suit.
6. Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	Avoid contact with skin and eyes. Avoid dust formation; Do not inhale dusts.
6.2. Environmental precautions	Do not allow larger quantities to enter drains, surface water and groundwater.
6.3. Methods and material for containment and cleaning up	Mechanically pick up and clean.
6.4. Reference to other sections	Observe protective instructions - see Section 8

7. Handling and storage																											
7.1. Precautions for safe handling	Avoid dust formation and dust deposits - see Section 8																										
7.2. Conditions for safe storage, including any incompatibilities	Store tightly closed in a cool, dry place. Do not store in metal container.																										
7.3. Specific end use(s) Dosage/mixing ratio: 20g / liter well water volume	Well cleaning and regeneration agent for the removal of iron and manganese deposits and incrustations.																										
8. 8. Exposure controls / personal protection																											
8.1. Control parameters	Citric acid: Occupational exposure limits not established																										
8.2. Exposure limits	Depending on the conditions of use, body protection products must be selected depending on the possible concentrations of hazardous substances. Eye protection: Tightly fitting goggles Hand protection: Protective gloves (natural rubber, d = 0,6 mm) Respiratory protection: Required if dusts (particulate filter) occur. Industrial hygiene: Change contaminated clothing immediately. Preventive skin protection. Wash hands before breaks and after work. Protective and hygiene measures: Avoid contact with the skin and the eyes. Handle in accordance with good industrial hygiene and safety practices. When using, do not eat, drink or smoke.																										
9. 9. Physical and chemical properties																											
9.1. Information on basic physical and chemical properties	<table> <tr> <td>Appearance:</td> <td>Hard, powder</td> </tr> <tr> <td>Odour:</td> <td>Odorless</td> </tr> <tr> <td>pH-value (20 °C):</td> <td>1,6 – 1,7</td> </tr> <tr> <td>Melting temperature:</td> <td>153 ° C (decomposition)</td> </tr> <tr> <td>Ignition temperature:</td> <td>345 ° C</td> </tr> <tr> <td>Boiling point:</td> <td>98 °C - 103 °C (1013 hPa)</td> </tr> <tr> <td>Flash point:</td> <td>Not applicable</td> </tr> <tr> <td>Flammability:</td> <td>Not applicable</td> </tr> <tr> <td>Explosive properties:</td> <td>Non-explosive</td> </tr> <tr> <td>Vapor pressure (20 ° C):</td> <td><0.1 hPa</td> </tr> <tr> <td>Density (18 ° C):</td> <td>1,665 g / cm³</td> </tr> <tr> <td>Solubility in water (20 ° C):</td> <td>1330 g / l</td> </tr> <tr> <td>Thermal decomposition:</td> <td>175 ° C</td> </tr> </table>	Appearance:	Hard, powder	Odour:	Odorless	pH-value (20 °C):	1,6 – 1,7	Melting temperature:	153 ° C (decomposition)	Ignition temperature:	345 ° C	Boiling point:	98 °C - 103 °C (1013 hPa)	Flash point:	Not applicable	Flammability:	Not applicable	Explosive properties:	Non-explosive	Vapor pressure (20 ° C):	<0.1 hPa	Density (18 ° C):	1,665 g / cm ³	Solubility in water (20 ° C):	1330 g / l	Thermal decomposition:	175 ° C
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9.2. Other information:	---																										

10. Stability and reactivity	
10.1. Reactivity	See section 10.2. - 10.6.
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous reactions	None under normal processing.
10.4. Conditions to avoid	Thermal load, dust formation
10.5. Incompatible materials	Materials to avoid are metals, oxidizers, bases, reducing agents.
10.6. Hazardous decomposition products	Methylmaleic
11. Information on toxicological effects	
Acute oral toxicity LD ₅₀ :	3000 mg / kg (citric acid)
Irritation: - skin:	slightly irritant
- eye:	strongly irritant
- inhalation:	Irritant effect of respiratory tract after inhalation of dusts
Sensitisation:	Not known
Carcinogenicity:	Not classified
Mutagenicity:	Not classified
Toxicity for reproduction:	Not classified
Other information:	The product should be handled with the care necessary with chemicals.
12. Ecological information	
12.1. Toxicity:	
Citric acid:	
Fish toxicity LC ₅₀ :	440-760 mg / l / 96 h (Leuciscus idus)
Daphnia toxicity EC ₅₀ :	120 mg / l / 72 h (Daphnia magna)
Protozoa EC ₅₀ :	485 mg / l / 72 h (Entosiphon sulcatum).
Bacterial toxicity EC ₅₀ :	80 mg / l / 8 d (Microcystis aeruginosa)
	> 10000 mg / l / 16 h (Pseudomonas putida)

12.2. Persistence and degradability:

COD value: 728 mg / g (citric acid)

BOD value: 526 mg / g (citric acid)

Biodegradability: **Easily biodegradable**

12.3. Bioaccumulative potential

Bioaccumulation is not expected (Log P (o / w) <1).

12.4. Mobility in soil

No further relevant data available.

12.5. Results of PBT- and vPvB-assessment

No data available.

12.6. Other adverse effects

With proper handling and use no ecological problems are to be expected.

13. Disposal considerations

13.1. Waste treatment methods

Disposal in accordance with local regulations – No toxic waste.

14. Transport information

14.1. UN number

No hazardous material as defined by the transport regulations.

14.2. UN proper shipping name

No hazardous material as defined by the transport regulations.

14.3. Transport hazard class(es)

No hazardous material as defined by the transport regulations.

14.4. Packing group

No hazardous material as defined by the transport regulations.

14.5. Environmental hazards

No

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

Other information:

No hazardous material as defined by the transport regulations.

15. Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
National regulation (D):	
Classification according to VCI:	10-13
Water contaminating class (D):	1 (slightly water contaminating)
15.2. Chemical safety assessment	
No data available.	
16. Other information	
Regulations	
<ul style="list-style-type: none">- Regulation (Ec) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC- Regulation (EC) No 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)	
Sources:	
<ul style="list-style-type: none">- Gefahrstoffdatenbank GESTIS- Merck, Safety data sheet	
Relevant hazard statements:	
Full text of H-Statements referred to under section 3:	
H319 Causes serious eye irritation.	