


Date: 19.01.2006 Update: 20.01.2022

<b>1. 1. Name of the substance and of company</b>
1.1. Product identifier <b>WESSOCLEAN NOVA K20 PLUS</b> Concentrate
1.2. Defined usage of the substance and application Universal descaler for cleaning household appliances and machines of all kinds, air humidifiers, steam generators and individual appliance parts - for use in private households, industry, and commerce.
1.3. Details of the supplier providing the safety data sheet WESSO AG Wacholderweg 6 90518 Altdorf b. Nürnberg Fon: +49 (0) 9187/70697-11 Fax: +49 (0) 9187/70697-12 Mail: contact@wesso.com
1.4. Emergency Giftnotruf Berlin - Fon +49 (0) 30 / 30686 790 WESSO Fon +49 (0) 9187/7069711
<b>2. Potential hazards</b>
2.1. Classification of the substance or mixture Acc. to regulation (EG) Nr. 1272/2008 Eye Irrit. 2, H319
2.2. Marking elements  Signal word: Caution Hazard warning: H 319 Causes serious eye irritation Safety advice: 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
<b>3. Composition / information on ingredients</b>
3.1. Substances Not applicable
3.2. Mixtures Citric acid: CAS-Nr. 77-92-9 EG-Nr. 201-069-1 Share: 75 - 95 % Classification according to regulation (EG) Nr. 1272/2008: eye irritation, category 2, H319

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<b>4. First aid measures</b>	
4.1. Description of first aid measures	
After eye contact:	Immediately rinse thoroughly with plenty of water, remove contact lenses if present, consult a doctor.
After ingestion:	Rinse out mouth and drink plenty of water. Do not induce vomiting. Consult a doctor if symptoms persist.
After skin contact:	Wash off with plenty of water.
After inhalation:	Supply plenty of fresh air.
General information:	Take off contaminated, soaked clothing.
4.1.	Most important symptoms and effects, both acute and delayed. No further relevant information available
4.2.	Indications for immediate medical help or special treatment  No further relevant information available
<b>5. Fire fighting measures</b>	
5.1. Extinguishing agents	suitable extinguishing agents: foam, extinguishing powder, carbon dioxide, water Inappropriate: ---
5.2.	Special hazards arising from the substance or mixture
5.3.	In case of fire, hazardous gases or vapours may be generated (use respiratory protection in the danger zone). Precipitate escaping vapours with water.
5.4.	Advice for firefighting wear self-contained breathing apparatus in the danger zone.
<b>6. Accidental release measures</b>	
6.1.	Human related precautions, protective equipment, and emergency procedures.  Avoid contact with skin and eyes. Avoid dust emission; do not inhale dusts.
6.2.	environmental protection  Do not allow larger quantities to enter the sewage system, surface water and groundwater.
6.3.	Techniques and materials for containment and cleaning  Take up mechanically and clean up afterwards.
6.4.	Reference to other chapters  Safeguards under section 8
<b>7. Handling and storage</b>	
7.1.	Precautions for safe handling  Avoid dust formation and deposits.  For personal protective measures see point 8
7.2.	Conditions for safe storage considering incompatibilities  Store tightly closed in a cool and dry place. Do not store in metal containers.
7.3.	Specific end use: exact application dosages see instruction & packaging description.

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<b>8. Exposure controls / personal protective equipment</b>	
8.1. Parameters to be monitored	Citric acid: Occupational exposure limit values not established
8.2. Exposure controls / Personal protective equipment	<p>Body protective equipment must be selected in its design according to the conditions of use depending on possible concentrations of hazardous substances.</p> <p>Eye protection: tight-fitting safety goggles</p> <p>Skin protection: protective gloves (nitrile rubber, d &gt; 0.3 mm)</p> <p>Respiratory protection: required if dusts occur (particle filter).</p> <p>Industrial hygiene: change contaminated clothing immediately.</p> <p>Preventive skin protection. Wash hands before breaks and after work. Do not eat, drink and smoke at work.</p>
<b>9. Physical and chemical properties</b>	
9.1. Information on basic physical and chemical properties	<p>Appearance: Solid, powder</p> <p>Odour: Odourless</p> <p>Colour: White</p> <p>pH value (100 g/l) at 20 °C: 1.6 - 1.7</p> <p>Melting temperature: 153 °C (decomposition)</p> <p>Boiling temperature: Not applicable</p> <p>Ignition temperature: 345 °C</p> <p>Flash point: Not applicable</p> <p>Flammability: Not applicable</p> <p>Explosion limits: Not available</p> <p>Vapour pressure (20 °C): &lt; 0.1 hPa</p> <p>Density (18 °C): 1.665 g/cm<sup>3</sup></p> <p>Solubility in water (20 °C): 1330 g/l</p> <p>Thermal decomposition: 175 °C</p>
9.2. Other information:	---
<b>10. Stability and reactivity</b>	
10.1. Reactivity	s. Points 10.2. to 10.6.
10.2. Chemical stability	The product is chemically stable under normal environmental conditions
10.3. Possible hazardous reactions	Keine Daten vorhanden
10.4. Conditions to avoid	Thermal load, dust generation

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10.5. Incompatible materials Substances to avoid are metals, oxidising agents, bases, reducing agents.
10.6. Hazardous decomposition products Methyl maleic acid anhydride
<b>11. Toxicological data</b>
Acute oral toxicity LD50(rat): 3000 mg/kg (citric acid). Irritation: - on the skin: mild irritant effect - on the eye: strong irritant effect - after inhalation: irritant effect on the respiratory tract after inhalation of the dusts Sensitisation: No sensitising effect known Carcinogenicity: Not tested Mutagenicity: Not tested Reproductive toxicity: Not tested  Further information: The product must be handled with the necessary caution for chemicals.
<b>12. environmental claims</b>
12.1. Toxicity: Citric acid: Fish toxicity LC50: 440-760 mg/l /96 h (Leuciscus idus). Daphnia toxicity EC50: 120 mg/l /72 h (Daphnia magna) Protozoa EC50: 485 mg/l /72 h (Entosiphon sulcatum). Bacterial toxicity EC50: 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: Readily biodegradable
12.3. Bio-accumulative potential Bioaccumulation is not expected (Log P(o/w) < 1).
12.4. Soil mobility No further relevant data available.
12.5. Results of PBT and vPvB assessment No data available
12.6. Other adverse effects No ecological problems are expected with proper handling and usage.
<b>13. Note on waste disposal</b>
13.1. Waste treatment method: in compliance with local authority regulations - not hazardous waste.

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#### **14. Transport details**

- 14.1. UN identification No: not required
- 14.2. UN proper shipping name: not relevant
- 14.3. Transport hazard class: not relevant
- 14.4. Packing group: not relevant
- 14.5. Environmental hazards: none
- 14.6. Special precautions for the user: not applicable
- 14.7. Carriage in bulk in accordance with Annex II of MARPOL 73/78 and the IBC Code: not applicable
- 14.8. Further information: not subject to the transport regulations

#### **15. legal provisions**

- 15.1. Safety, health and environmental regulations / specific legislation for the substance or mixture.
- 15.2. National regulations (D):
  - Storage class according to VCI: 10-13
  - Water hazard class: 1 (slightly hazardous for water)
- 15.3. Chemical Safety Assessment
  - No Data available

#### **16. Other information**

##### Regulations

- Regulation (EC) No 1907/2006 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
  - amending Regulation (EC) No 1907/2006
- Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006.

##### Sources:

- Hazardous substances database GESTIS
- Merck, safety data sheets

##### Relevant hazard statements

H319 Causes severe eye irritation