Prepared on: 23/09/2008 Revised on: 24/01/2023

1. Designation of the substance and/or mixture and of the company

1.1. Product identifier

WESSOCLEAN GOLD LINE
Application solution

1.2. Relevant identified uses of the substance or mixture and uses

Biocidal application

1.3. Details of the supplier of the safety data sheet

WESSO AG
Wacholderweg 6
90518 Altdorf b. Nürnberg
Telefon: +49 (0) 9187 7069711
Fax: +49 (0) 9187 7069712
E-Mail: contact@wesso.com

1.4. Emergency number

WESSO AG (available during office hours) - Tel. +49 (0) 9187 7069711

2. 2 Potential hazards

2.1. Classification of the substance or mixture

According to regulation (EC) No. 1272/2008

Hazard class	Category	Hazard class and category	Hazard statements
May be corrosive to metals	1	Corrosive to Metals	H290
Serious damage to eyes/eye irritation	2	Eye Irritation	H319
Hazardous to the aquatic environment – Chronic	3	Aquatic Chronic 3	H412

Additional information:

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2.2. Labelling elements

Signal word: Danger

GHS Pictograms: GHS05

Hazard statements:

H290 May be corrosive to metals

H319 Causes serious eye irritation

H412 Harmful to aquatic life with long-lasting effects

Precautionary statements:

P234: Keep only in original packaging.

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear eye protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P390: Absorb spillage to prevent material damage.

P501: Dispose of contents and container to an approved waste disposal plant in accordance with national regulations.

2.3. Other hazards

All chemicals are potentially dangerous. They should therefore only be handled by specially trained personnel with the necessary care.

No components of the mixture are classified as PBT- oder vPvB-substances.

3. Composition / information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Peracetic acid: CAS-Nr. 79-21-0 EG-Nr. 201-186-8
Percentage: 50 – 300 ppm
Classification according to regulation (EC) No. 1272/2008:
Flam. Liq. 3 H226, Org. Perox. D H242, Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1A H314, Acute Tox. 4 H332, Aquatic Acute 1 H400
Specific concentration limits: STOT SE 3; H335: C ≥ 1 %

Hydrogen peroxide: CAS No. 7722-84-1 EC No. 231-765-0
Percentage: 1 - 5 %
Classification according to regulation (EC) No. 1272/2008:
Ox. Liq. 1 H271, Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1A H314, , STOT SE 3 H335, Aquatic chronic 3 H412
Specific concentration limits: STOT SE 3; H335; C ≥ 35 %; Eye Dam. 1; H318: 8 % ≤ C < 50 %; Eye Irrit. 2; H319: 5 % ≤ C < 8 %; Ox. Liq. 1; H271: C ≥ 70 %; Ox. Liq. 2; H272: 50 % ≤ C < 70 %

Acetic acid: CAS No. 64-19-7 EC No. 200-580-7
Percentage: <0,1%
Classification according to regulation (EC) No. 1272/2008:
Flam. Liq. 3 H226, Skin Corr. 1A H314

Ethanol: CAS No. 64-17-5 EC No. 200-578-6
Percentage: 1 - 5%
Classification according to regulation (EC) No. 1272/2008:
Flam. Liq. 2 H225, , Eye Irritat. 2 H319

Isopropyl alcohol: CAS No. 67-63-0 EC No. 200-661-7
Percentage: 1 - 5%
Classification according to regulation (EC) No. 1272/2008:
Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336

Sulphuric acid (25%): CAS-Nr. 7664-93-9 EG-Nr. 231-639-5
Percentage: <0,1%
Classification according to regulation (EC) No. 1272/2008:
Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318

4. First aid measures

4.1. Description of the first aid measures

IF INHALED: If symptoms occur call a POISON CENTRE or a doctor.
IF SWALLOWED: Rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call a POISON CENTRE or a doctor.
IF ON SKIN: Wash skin with water. If symptoms occur call a POISON CENTRE or a doctor.
IF IN EYES: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing for 5 minutes. Call a POISON CENTRE or a doctor.

4.2. Environment:

Avoid direct release of the undiluted product to the environment and sewage system. Cover the liquid with absorbent material. Contain and collect for disposal.
No further relevant information available

4.3. Indication of immediate medical attention or special treatment

No further relevant information available

5. Fire-fighting measures

5.1. Extinguishing agents

Suitable extinguishing media: Foam, dry powder, carbon dioxide, water
Unsuitable extinguishing media: Unknown

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to the formation of corrosive gases or vapours.

5.3. Information for fire-fighting

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.
Keep away from sources of ignition.

6.2. Environmental precautions

Cover the liquid with absorbent material. Contain and collect for disposal. Avoid direct release of the undiluted product to the environment and sewage system. Larger amounts must not be discharged into drains, surface water and groundwater.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
Shovel into suitable container for disposal.

6.4 References to other sections

Protective measures listed in Section 8

7. Handling and storage

7.1. Precautions for safe handling

Personal protective measures see Section 8

7.2. Conditions for safe storage, including any incompatibilities

Shelf life: 12 months. Protect from frost. Store at temperatures below 30°C.

7.3. Specific end uses

Risk mitigation measures for loading the product:
The use of eye protection during handling of the product is recommended.

Risk mitigation measures for application of the product:
Application of the product is only permitted in closed, airtight disinfection systems.
The disinfection shall only be started from the outside to avoid contact with the disinfectant.
The chamber must remain hermetically sealed during disinfection and re-entry must be prevented. It shall be indicated that a disinfection process is running.
After application, the chamber must be completely ventilated by a technical ventilation system.
Re-entry is only permitted once the product has dried from all surfaces and the air concentrations of peracetic acid and hydrogen peroxide have dropped below the respective reference values (AECs). To ensure sufficient ventilation, either a disinfection system with sensors indicating when the relevant concentrations have dropped below the reference values has to be used, or the required duration of the technical ventilation has to be established by measurement with suitable measurement equipment for each technical installation and after any change in relevant boundary conditions.

Risk mitigation measures for repair or maintenance of dosing pumps:
Prior to intervention in the pumps, existing product residues must be largely removed by flushing the pumps.

7.4. Use specific instruction

Please see label and product specification sheet for detailed information.

8. Limitation and monitoring of exposure / personal protective equipment

8.1. Parameters to be monitored

Hydrogen peroxide: EU reference value = 1.25 mg/m³
Peracetic acid: EU reference value = 0.5 mg/m³
Ethanol: 380 mg/m³ or 200 ppm (Germany (AGS))
Isopropyl alcohol: EU reference value = 17.9 mg/kg bw/d

8.2. Limitation and monitoring of exposure / personal protective equipment

Protective clothing should be selected in their design according to the conditions of use and depending on possible hazardous substance concentrations.

Eye protection:	Tightly fitting safety goggles
Skin protection:	Protective gloves (nitrile rubber, t = 0.6 mm)
Respiratory protection:	Avoid inhalation of vapours / aerosols. For application of large quantities respiratory protection may be required (combination filter NO).
Industrial hygiene:	Immediately change contaminated clothing. Preventive skin protection. Wash hands before breaks and at end of work.

At work do not eat, drink or smoke.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Colourless to light yellow liquid
Odour:	characteristic (tartish, fruity) odor
pH value concentrated (20°C):	3.24
Density (20°C):	1.005 g/cm³
Flash point:	56 °C
Flammability:	category 3 for flammable liquids
Risk of explosion:	No hazard if used and stored properly
Explosive property	---
Solubility in water (20°C):	Miscible in all proportions

9.2. Other information ---

10. Stability and reactivity

10.1. Reactivity : See Section 10.2. to 10.6.

10.2. Chemical stability: The product is chemically stable under standard ambient conditions.

10.3. Potential dangerous reactions: Under normal conditions and uses, no hazardous reactions are known.

10.4. Conditions to avoid: Thermal stress

10.5. Incompatible materials: Strongly oxidising materials, strong acids and bases

10.6. Hazardous decomposition products: No data available

11. Toxicological information

Product

Acute oral toxicity LD_{50}:	> 2000 mg/kg body weight
Irritations: - On the eye:	Eye irritation
Sensitisation:	No sensitising effects known
Carcinogenicity:	Not carcinogenic
Mutagenicity	Not mutagenic
Reproductive toxicity:	Not reprotoxic

Additional information: The product should be handled with the care usual when dealing with chemicals.

Peracetic acid	Value	Study	Safety factor
AEL long-term	n.a.; PAA does not cause systemic effects[1]	-	-
AEL medium-term	n.a.; PAA does not cause systemic effects[1]	-	-
AEL acute	n.a.; PAA does not cause systemic effects[1]	-	-
NOAEC dermal medium/short-term	0.2 %	Human Volunteer Study	Assessment-Report (RMS Finland (2015)
NOAEC dermal medium/short-term	0.1 %	Rabbit one year study	Assessment-Report (RMS Finland (2015)
AEC inhalation	0.5 mg/m³	Human data (NOAEC 0.5 ppm)	Assessment-Report (RMS Finland (2015)
ARfD	n.a.; PAA does not cause systemic effects[1]		

[1] Assessment-Report (RMS Finland (2015)

Peracetic acid	Value	Reference
Oral absorption	Not determined, 100% as a default	Assessment-Report (RMS Finland (2015)
Dermal absorption	100 %	Assessment-Report (RMS Finland (2015)

12. Environmental information

12.1. Toxicity:

Summary table PNEC values			
Substance		**PNEC**	**Based on**
PAA	surface water	0.069 µg/L	NOEC for D. rerio 0.69 µg/L, AF 10
	STP	0.051 mg/L	
	soil	0.282 mg/kg_{ww}	seedling emergence test with non-target plants (Brassica napus), AF 1000
H2O2	surface water	12.6 µg/L	NOEC for D. magna 0.63 mg/L, AF 50
	STP	4.66 mg/L	
	soil	0.0018 mg/kg_{ww}	EPM
Propan-2-ol	surface water	2.82 mg/L	NOEC for D. magna 141 mg/L, AF 50
	STP	10 mg/L	
	soil	0.496 mg/kg_{ww}	EPM

12.2. Persistence and degradability:

Readily biodegradable

12.3. Bio-accumulative potential:

Not accumulative

12.4. Mobility in soil:

No further relevant information available.

12.5. Results of PBT and vPvB assessment:

Not PBT or vPvB

12.6. Endocrine disrupting properties:

Neither the product nor any ingredient possess endocrine disrupting properties.

12.7. Other adverse effects:

There are no further adverse effects.

12.8. Additional information: --

13. Information on disposal

Residues of the biocidal product must be disposed off in accordance with the Waste Framework Directive (2008/98/EG) and the European Waste Catalogue (EWC) as well as national and regional regulations.

Do not empty into drains.

Dispose of contents/container to an authorised waste collection point.

Leave biocidal products in original containers. Do not mix with other wastes.

Empty the packaging completely prior to disposal. When totally empty, containers are recyclable.

14. Transport information

14.1. UN number

Not applicable - Non-hazardous material as defined in transport regulations.

14.2. Proper UN shipping name

Not applicable - Non- hazardous material as defined in transport regulations.

14.3. Transport hazard class

Not applicable - Non-hazardous material as defined in transport regulations.

14.4. Packing group

Not applicable - Non-hazardous material as defined in transport regulations.

14.5. Environmental hazards

14.6. Not applicable - Non-hazardous material as defined in transport regulations. Special precautions for the user

Not applicable - Non-hazardous material as defined in transport regulations.

14.7. Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code

Not applicable

Additional information: Non-hazardous material as defined in transport regulations.

15. Regulations

15.1. Safety, health and environmental regulations / Specific regulations for the substance or mixture

Regulation (EC) No 1272/2008 on classification, labelling and packaging (CLP)

Regulations of biocidal products (BPR, REGULATION (EU) No 528/2012)

Storage class VCI:	12
Water hazard class	1 (slightly hazardous for water)

15.2. Chemical safety assessment

No data available

16. Other information

Please be aware of the EU reference value of 0.5 mg/m³ for the active substance peracetic acid (CAS No.: 79-21-0) which was used for the risk assessment for this product.
Please be aware of the EU reference value of 1.25 mg/m³ for the substance of concern hydrogen peroxide (CAS No.: 7722-84-1) which was used for the risk assessment for this product.
Please be aware of the EU reference value of 17.9 mg/kg bw/d for the substance of concern propan-2-ol (CAS No.: 67-63-0) which was used for the risk assessment for this product.