

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name/designation:

Actoman® Plus

Article No.:

6.9105.

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

Use of the substance/mixture:

Hand and Skin Disinfectant

Product-type 1: Human hygiene

Relevant identified uses:

Sector of uses [SU]

SU 20: Health services

SU 21: Consumer uses

SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product Categories [PC]

PC 8: Biocidal product

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

ACTO GmbH

Quality Management

Büchnerstr. 11

38118 Braunschweig

Germany

Telephone: (+49) (0) 531-239 508-0

Telefax: (+49) (0) 531-239 508-11

E-mail: info@actogmbh.com

Website: http://www.actogmbh.com

E-mail (competent person): info@actogmbh.com

Poison Control Center-Nord (GIZ-Nord) University Medical Center Göttingen Robert-Koch-Str. 40, 37075

Göttingen Emergency number for Citizens: +49 (0) 551-19 24 0 Consulting physician: +49 (0) 551-38 31

80 E-mail: giznord@giz-nord.de Web-Page: http://www.giz-nord.de

1.4. Emergency telephone number

Safety Officer 8:00-18:00 clock on weekdays, 24h: GIZ-Nord: +49-551-19 24 0, Safety Officer: +49-531-2395080; +49-172-8560648 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Acute 1</i>)	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 1</i>)	H410: Very toxic to aquatic life with long lasting effects.	

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark



GHS09

Environment

Signal word: Warning

Hazard components for labelling:

D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1); dodecyldimethylamine oxide; N,N-dimethyltetradecylamine N-oxide; propan-2-ol

hazard statements for health hazards

H319	Causes serious eye irritation.
------	--------------------------------

Hazard statements for environmental hazards

H400	Very toxic to aquatic life.
------	-----------------------------

H410	Very toxic to aquatic life with long lasting effects.
------	---

Supplemental Hazard information (EU)

EUH208	Contains Polyhexamethylene Biguanide Hydrochlorid. May produce an allergic reaction.
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Precautionary statements Prevention

P264.1	Wash hands thoroughly after handling.
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P273	Avoid release to the environment.
------	-----------------------------------

Precautionary statements Response

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.
-------------	---

Precautionary statements Disposal

P501	Dispose of contents/container to hazardous or special waste collection point.
------	---

2.3. Other hazards

Adverse human health effects and symptoms:

May cause sensitisation especially in sensitive humans.

Adverse environmental effects:

Avoid release of large amounts to the environment.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Additional information:

Within the current knowledge of the supplier, this mixture does not contain any further substances classified as health or environmental hazards in the concentrations applicable within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No 1272/2008 and are hence require reporting in this section.

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Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 68603-42-9 EC No.: 271-657-0	Amides, coco, N,N-bis(hydroxyethyl) Skin Irrit. 2, Eye Irrit. 2 Warning H315-H319	< 5 Wt %
CAS No.: 18472-51-0 EC No.: 242-354-0	D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) Eye Dam. 1, Aquatic Acute 1 Danger H318-H400	< 4.5 Wt %
CAS No.: 1643-20-5 EC No.: 216-700-6	dodecyldimethylamine oxide Eye Dam. 1, Acute Tox. 4, Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 2 Danger H302-H315-H318-H400-H411 M-factor: 1	< 4 Wt %
CAS No.: 57-55-6 EC No.: 200-338-0	propane-1,2-diol	≤ 2 Wt %
CAS No.: 3332-27-2 EC No.: 222-059-3	N,N-dimethyltetradecylamine N-oxide Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 3 Warning H302-H315-H319-H400-H412	< 1.9 Wt %
CAS No.: 77-92-9 EC No.: 201-069-1	citric acid Eye Irrit. 2 Warning H319	≤ 0.2 Wt %
CAS No.: 32289-58-0	Polyaminopropyl Biguanide	≤ 0.1 Wt %
CAS No.: 81-13-0 EC No.: 201-327-3	dexpanthenol	≤ 0.1 Wt %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment. First aider: Pay attention to self-protection!

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

Serious eye damage/eye irritation

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

Treat symptomatically.

You can refer to data sources in section 16 to find detailed toxicity information of each component.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Avoid contact with eyes. Wear personal protection equipment. Keep out of reach of children. Wash contaminated clothing prior to re-use.

Protective equipment:

Wear suitable protective clothing.

Emergency procedures:

Remove persons to safety. Provide eye shower and label its location conspicuously

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Eliminate leaks immediately.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Water

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Handle in accordance with good industrial hygiene and safety practice.

Fire prevent measures:

No special measures are necessary.

Environmental precautions:

Avoid release of large amounts to the environment.

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Advices on general occupational hygiene

When using do not eat, drink or smoke. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Recommended storage temperature: at room temperature. minimum storage temperature: 5 °C maximum storage temperature: 40 °C

Requirements for storage rooms and vessels:

Keep/Store only in original container. Floors should be impervious, resistant to liquids and easy to clean.

Hints on storage assembly:

Do not store together with: Food and feedingstuffs

Storage class: 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Protect against direct sunlight.

7.3. Specific end use(s)

Recommendation:

Some of the uses of the product mentioned in Section 1.2. No other specific uses are stipulated. Observe instructions for use.

Industrial sector specific solutions:

Hand and Skin Disinfectant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
DFG (DE)	glycerol CAS No.: 56-81-5	① 200 mg/m ³ ② 400 mg/m ³ ⑤ (einatembare Fraktion)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. No special technical protective measures are necessary.

8.2.2. Personal protection equipment



Eye/face protection:

Avoid contact with eyes. No particular measures are necessary when used properly. To follow: Berufsgenossenschaftliche Regeln (BGR) 192. Eye glasses with side protection DIN EN 166

Skin protection:

Wash hands before breaks and after work. Apply skin care products after work.

Respiratory protection:

With correct and proper use, and under normal conditions, breathing protection is not required.

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Other protection measures:

General health and safety measures: When using do not eat, drink, smoke, sniff. Avoid contact with eyes. Wash hands before breaks and after work. Wash contaminated clothing prior to re-use.

8.2.3. Environmental exposure controls

See chapter 7. No additional measures necessary.

8.3. Additional information

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: transparent

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	≥ 5 - ≤ 6.5	20 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Relative density	≥ 0.99 - ≤ 1.06 g/ml	20 °C		
Bulk density	<i>not determined</i>			
Water solubility (g/L)	very soluble	20 °C		
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product itself does not burn. There is no dangerous reactions known when use as prescribed and with proper storage.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

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10.6. Hazardous decomposition products

In case of fire: Gases/vapours, toxic

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
3332-27-2	N,N-dimethyltetradecylamine N-oxide	LD₅₀ dermal: >2,000 mg/kg (Rabbit) LD₅₀ oral: >600 mg/kg (Rat)
18472-51-0	D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)	LD₅₀ oral: >2,000 mg/kg (Rat) OECD 401 LD₅₀ dermal: >5,000 mg/kg (Rabbit)
68603-42-9	Amides, coco, N,N-bis(hydroxyethyl)	LD₅₀ oral: >5,000 mg/kg
77-92-9	citric acid	LD₅₀ oral: 3,000 mg/kg (Rat)
32289-58-0	Polyaminopropyl Biguanide	LD₅₀ oral: 2,000 mg/kg (Ratte) LD₅₀ dermal: 2,000 mg/kg (Ratte) LC₅₀ inhalative: 1.85 mg/l (Ratte)

Acute oral toxicity:

The classification criteria for this hazard class are not met by definition.

Acute dermal toxicity:

The classification criteria for this hazard class are not met by definition.

Acute inhalation toxicity:

The classification criteria for this hazard class are not met by definition.

Skin corrosion/irritation:

The classification criteria for this hazard class are not met by definition.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

Contains Polyaminopropyl biguanide. May produce an allergic reaction.

Germ cell mutagenicity:

The classification criteria for this hazard class are not met by definition.

Carcinogenicity:

The classification criteria for this hazard class are not met by definition.

Reproductive toxicity:

The classification criteria for this hazard class are not met by definition.

STOT-single exposure:

The classification criteria for this hazard class are not met by definition.

STOT-repeated exposure:

The classification criteria for this hazard class are not met by definition.

Aspiration hazard:

The classification criteria for this hazard class are not met by definition.

Additional information:

No data available

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SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
18472-51-0	D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)	LC₅₀ : 2.08 mg/l 4 d (Brachydanio rerio (zebra-fish)) OECD 203 EC₅₀ : 0.087 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 NOEC : 0.0206 mg/l 21 d (Daphnia magna (Big water flea)) OECD 211 LOEC : 0.0618 mg/l 21 d (Daphnia magna (Big water flea))
77-92-9	citric acid	LC₅₀ : 160 – 160 mg/l 2 d
32289-58-0	Polyaminopropyl Biguanide	LC₅₀ : 0.026 mg/l 4 d (Fische) EC₅₀ : 0.09 mg/l 2 d (Daphnien) OECD 202 (Daphnien, Immobilisierung)

Aquatic toxicity:

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
3332-27-2	N,N-dimethyltetradecylamine N-oxide	Yes, rapidly	
77-92-9	citric acid	Yes, rapidly	

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K _{OC}	Bioconcentration factor (BCF)
77-92-9	citric acid	-1.57	

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
3332-27-2	N,N-dimethyltetradecylamine N-oxide	—
18472-51-0	D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)	—
68603-42-9	Amides, coco, N,N-bis(hydroxyethyl)	—
77-92-9	citric acid	—
32289-58-0	Polyaminopropyl Biguanide	—
81-13-0	dexpanthenol	—

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

07 06 99 Wastes not otherwise specified

Waste code packaging:

15 01 10 packaging containing residues of or contaminated by dangerous substances

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Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal. Completely emptied packages can be recycled.

13.2. Additional information

No data available

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es)			
No data available			
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
		 MARINE POLLUTANT	
14.6. Special precautions for user			
Special provisions: 274, 335, 375, 601 Limited quantity (LQ): 5L-E1 Hazard identification number (Kemler No.): 90 Classification code: M6 tunnel restriction code: (E) Remark:	Special provisions: 274, 335, 375, 601 Limited quantity (LQ): 5L-E1 Classification code: M6 Remark:	Special provisions: 274, 335, 969 Limited quantity (LQ): 5L-E1 EmS-No.: F-A; S-F Remark:	Special provisions: A97, A158 Limited quantity (LQ): IATA-Packing instructions - Passenger: Y9 64 IATA-Maximum amount - Passenger: 30Kg G IATA-Packing instructions - Passenger 964 IATA-Maximum amount - Passenger: 450L IATA-Packing instructions - Cargo: 964 IATA-Maximum amount - Cargo: 450L Remark: ERG Code: 9L

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

No data available

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SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Regulation (EU) No. 528/2012 on biocides

Other regulations (EU):

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Classification according to Regulation (EC) No 1272/2008 [CLP], according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 453/2010). Classification according to Directive 67/548/EEC or 1999/45/EC. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.1.2. National regulations

 **[DE] National regulations**

Restrictions of occupation

5 MuSchRiV. 4 MuSchRiV. 22 JArbSchG.

Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

Technische Anleitung Luft (TA-Luft)

Remark:

Total dust emission value may not be exceeded. (see No. 5.2.1).

Water hazard class (WGK)

WGK:

3 - Severely water-hazardous

Source:

Classification according to VwVwS, Annex 4.

Remark:

Avoid release of large amounts to the environment.

Other regulations, restrictions and prohibition regulations

TRGS 401 "Risks resulting from skin contact - identification, assessment, measures"

TRGS 510 "Storage of hazardous substances in non-stationary containers"

BGI 595 "Instructions M 004: Irritating substances / corrosive substances"

TRGS 900 "Occupational exposure limit values"

TRGS 903 Minimum protective measures according to TRGS 500. Berufsgenossenschaftliche Informationen (BGI): 536, 564, 595, 621, 623 & 660. Berufsgenossenschaftliche Vorschriften (BGV). Berufsgenossenschaftliche Regeln (BGR): 180, 189, 190, 192, 195 & 197.

15.2. Chemical Safety Assessment

No data available

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

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16.3. Key literature references and sources for data

You can refer to data sources below to find detailed toxicity information of each component.

<http://www.baua.de/>

<http://gestis.itrust.de/>

<http://www.gefahrstoff-info.de/>

<http://esis.jrc.ec.europa.eu/>

<http://www.echemportal.org/>

<http://www.gischem.de>

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Acute 1</i>)	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 1</i>)	H410: Very toxic to aquatic life with long lasting effects.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

Use biocides safely. Always read the label and product information before use.

16.7. Additional information

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