

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

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Use of the substance/preparation

Disinfectant cleaner
Biocide

Company/undertaking identification

Microgen, Inc., 33 Clinton Road, Suite 102, West Caldwell, NJ 07006 USA
 Tel.: +1 973-575-9025 Fax: +1 973-575-9075

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

Emergency telephone

Advisory office in case of poisoning:

Tel.:

Telephone number of the company in case of emergencies:

Tel.: +1 973-575-9025

2. HAZARDS IDENTIFICATION

To people

See point 11 and 15.
 Preparation is classified as hazardous in the sense of directive 1999/45/EC.
 Irritation of the eyes

To the environment

See point 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name			
content %	Symbol	R-phrases	EINECS, ELINCS
	Registration number (ECHA)		
Sodium carbonate			
1 - 5	Xi	36	207-838-8
Alkyl dimethyl ethylbenzyl ammonium chloride			
1 -< 5	Xn/C/N	21/22-34-50	287-090-7
Alkyldimethylbenzylammonium chloride			
1 -< 5	Xn/C/N	21/22-34-50	269-919-4
Tetrasodium ethylene diamine tetraacetate			
1 -< 5	Xn/Xi	22-41	200-573-9

For complete wording of the R-phrases, refer to point 16.

4. FIRST AID MEASURES

4.1 Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.
Keep Data Sheet available.

4.2 Eye contact

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

4.3 Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

4.4 Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.5 Special resources necessary for first aid

n.c.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Product is not combustible.

Adapt to the nature and extent of fire.

Water jet spray/foam/CO2/dry extinguisher

5.2 Extinguishing media which shall not be used for safety reasons

n.c.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Hydrogen chloride

Toxic pyrolysis products.

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

6. ACCIDENTAL RELEASE MEASURES

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping

6.2 Environmental precautions

If leakage occurs, dam up.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

7. HANDLING AND STORAGE

7.1 Handling

Tips for safe handling:

See point 6.1

Avoid aerosol formation.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Wash hands before breaks and at end of work.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.2. Storage

Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Special storage conditions:

See point 10

Protect from frost.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

8.2 Exposure controls

8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Respiratory protection:

Normally not necessary.

Hand protection:

Chemical resistant protective gloves (EN 374).

Protective hand cream recommended.

If applicable

Rubber gloves (EN 374).

Protective hand cream recommended.

Eye protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.2 Environmental exposure controls

n.av.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
pH-value undiluted:	~ 10
Boiling point/boiling range (°C):	> 100
Melting point/melting range (°C):	< 0
Flash point (°C):	n.c.
Vapour pressure:	n.c.
Density (g/ml):	1,007
Water solubility:	Soluble

10. STABILITY AND REACTIVITY

Conditions to avoid

Stable when handled and stored correctly.

Materials to avoid

See point 7

Avoid contact with other chemicals.

Hazardous decomposition products

See point 5.3

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11. TOXICOLOGICAL INFORMATION

Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	n.av.
Inhalation, LC50 rat inhal.(mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	n.av.
Eye contact:	See point 15.

Delayed and chronic effects

Sensitization:
 May cause sensitization by skin contact. *
 * Benzalkonium chloride

Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	n.c.

Further information

Classification according to calculation procedure.
 The following may occur:
 Irritation of the skin.
 Ingestion of large quantities:
 Product is dangerous to health.
 Risk of serious damage to eyes.
 * Benzalkonium chloride

12. ECOLOGICAL INFORMATION

Water hazard class (Germany):	3
Self classification:	Yes (VwVwS)
Persistence and degradability: Readily biodegradable (86%) * 79,9% /28d US-EPA **	
Behaviour in sewage plants:	n.av.
Aquatic toxicity:	n.av.
Ecological toxicity:	n.av.
* POLYSORBATE 80	
** Alkyldimethylbenzylammonium chloride	

13. DISPOSAL CONSIDERATIONS

13.1. for the material / preparation / residue

EC disposal code no.:
 The waste codes are recommendations based on the scheduled use of this product.
 Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)
 07 06 01 aqueous washing liquids and mother liquors
 20 01 29 detergents containing dangerous substances
 Recommendation:
 Pay attention to local and national official regulations
 E.g. suitable incineration plant.
 E.g. dispose at suitable refuse site.

13.2 for contaminated packing material

See point 13.1
 Pay attention to local and national official regulations
 Empty container completely.
 Uncontaminated packaging can be recycled.
 Dispose of packaging that cannot be cleaned in the same manner as the substance.

14. TRANSPORT INFORMATION

General statements

UN-Number:	n.a.
Road/Rail-transport (ADR/RID)	
Class/packing group:	n.a.
Classification code:	n.a.

LQ: n.a.

Tunnel restriction code:

Additional information:

Non-dangerous material according to Transport Regulations.

15. REGULATORY INFORMATION

Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)



Symbols: Xi

Indications of danger: Irritant

R-phrases:

36 Irritating to eyes.

S-phrases:

(2) Keep out of the reach of children.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

35 This material and its container must be disposed of in a safe way.

(46) If swallowed, seek medical advice immediately and show this container or label.

Additions: n.a.

Observe restrictions: Yes

Observe youth employment law (German regulation).

Observe restrictive guidelines 76/769/EEC, 1999/51/EC, 1999/77/EC

16. OTHER INFORMATION

These details refer to the product as it is delivered.

Storage class VCI (Germany): 12

Revised points: n.a.

The following phrases represent the prescribed R-phrases / H-phrases (GHS) for the ingredients (designated in point 3).

36 Irritating to eyes.

21/22 Harmful in contact with skin and if swallowed.

34 Causes burns.

50 Very toxic to aquatic organisms.

22 Harmful if swallowed.

41 Risk of serious damage to eyes.

Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference

period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are

not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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