



MATERIAL SAFETY DATA SHEET:	Printing data	14-05-2004
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1. Identification of the agent, Identification of the distributor

Trade name: CT 99 biocide agent

Application of the substance/preparation: concentration –liquid to kill mould, moss, lichen and algae

Manufacturer: Henkel Polska Sp. z o.o.
 ul. Domaniewska 41
 02-672 WARSZAWA
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2. Composition and information on ingredients:

Numbers ; CAS; EINECS;	Designation of the component	Concentration	Classification / symbols and phrases R /
CAS; 55965-84-9 EINECS;	5-chlor-2-methyl-2H-isotiasol-3-on mixed with 2-methyl-2H-isotiasol-3-on (3:1)	0,03 %	T, N R 23/24/25-34-43-50/53
CAS; 61789-71-7 EINECS; 264-151-6	Chlorides of quaternary ammonium compounds – benzyl- (C 8-18) alkalidimethyloammonium chlorides	1,0 %	C, N R 21/22-34-50

3. Identifications of risks:

- Warning symbol; X_i - irritating,
 - Type of risk for man and the environment;
- R 43; it may cause allergy in contact with skin.

4. First –aid measures:

- after inhalation: remove a person from the dust contaminated zone, ensure the access to fresh air and then seek medical advice;
- after skin contact: removed stained clothes, then rinse with running water and soap, apply care cream, seek medical advice if need be;
- after eye contact: rinse immediately with plenty of running water (for 15 minutes), apply the sterile dressing, seek medical advice if there are irritation symptoms;
- after ingestion: rinse mouth and throat with running water, drink 1-2 glasses of water, do not cause any vomits, seek medical advice, thus showing the packaging or label.



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5. Fire-fighting measures:

- **extinguishing media:** traditional extinguishing media to be used (sprayed steam of water, extinguishing powder, foam, carbon dioxide) depending on the area in a blaze and materials used there.
- **extinguishing media which must not be used due to safety reasons:** unknown
- **special threats in case of fire:** during fire it is not possible to exclude traces of toxic substances.
- **protection equipment for fire-fighters:** breathing apparatus with close circuit and complete protective clothes.

6. Accidental release measures:

Personal precautions:

Avoid any contacts with skin and eyes. Ensure sufficient ventilation. During its removal, use personal protection means (protective gloves, protective glasses).

Environmental protection:

Do not empty to drains, surface water and ground water as well as drainage system.

Cleaning methods:

Remove the spilt agent (the product) with an absorbent material (sand, peat, sawdust). The stained surfaces may be neutralised and cleaned with the solution of 5% sodium bisulfite and 5%-sodium carbonate and follow point 13.

7. Handling and storage:

- **guidelines for safe handling the formulation:**

Avoid any contacts with skin and eyes, use personal protection means in compliance with point 8. Close the packaging after application.

- **requirements for packaging and storage:**

Store only in the original container. The container should be thoroughly closed after usage. Do not store at the temperature below 0°C. Protect against direct penetration of the sun. Do not store together with food and other consumables (coffee, tea, tobacco, etc.).

8. Exposure controls/personal protection:

- **Exposure control NDS, NDSCh, NDSP; - N/A**

Legal basis: Resolution in respect of the highest concentrations and risk intensification for health issued by the Minister of Labour and Social Policy on 29th November 2002 (Journal of Laws No 217, item 1833) with later amendments.

- **Personal protection:** - avoid contacts with eyes and skin, do not eat, do not drink nor smoke during the application. Wash hands before the breaks and after finishing work.



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Respiratory track protection: - avoid inhaling the vapours, ensure adequate ventilation during the application

Skin protection: - protective clothes or special uniform. Remove the stained clothes.

Hand protection: - protective gloves should be made of nitrile rubber. Protection gloves should be checked in respect of being useful for the particular working site and they should be replaced in case of any signs of being worn. The instruction of the organic gloves' manufacturer should always be respected.

Eye protection: - protective glasses,

9. Physical and chemical properties:

State - liquid
Colour - colourless
Odour - neutral
PH - 3.5
Ignition of temperature - N/A
Self-ignition of temperature - the formulation is not subject to self-ignition
Vapour pressure - 23 mbar (at 20°C)
Density - 1 g/cm³ (20°C)
Solubility - completely soluble in water

10. Stability and reactivity:

Conditions to avoid - it does not decompose if used according to specifications.

Materials to avoid - strongly oxidizing agents, alkali, nucleophil compounds, reducing agents, lye.

Dangerous decomposition products – unknown.

11. Toxicological information:

Agent may cause irritation in contacts with the skin.

Acute toxicology:

Essential classified valued LD/LC 50:

Product – oral > 2000 mg/kg rat



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12. Ecological information:

Compound substances are biologically decomposed. The active substance is not long-lasting, permanent. It decomposes in case of split chlorine atom. The class of threat to water is 2 (self-defined): hazardous for water.

Avoid discharging the product to sewage, ground, surface water.

Follow Resolution in respect of conditions to be fulfilled to damp any sewage especially risky for water environment to ground or water issued by the Minister of Environment on 29th November 2002 (Journal of Laws No 212, item 1799 dated on 2002).

13. Waste proceedings:

Product:

It is recommended to collect the waste into one container and deliver it to the company possessing the waste management permit in order to determine the proper method of recycling or utilisation.

Packaging:

Code and name of the waste - 15 01 02 Plastic packaging. Only empty packaging with the traces of dried product should be delivered for recycling. Follow the Act on Waste dated on 27th April 2001 (Journal of Laws No 62, item.628) with later amendments and Act on Packaging and Packaging Waste dated on 27th April 2001. (Journal of Laws No 63, item. 638) with later amendments.

14. Transportation information:

The product is not hazardous according to transport regulations.

15. Regulation information:

Information stated on the label:

Warning sign:



Warning symbol: **X_i**

Inscription of the warning symbol: **irritating product**

R 43 - it can cause allergy in the case of contact with skin;

S 2 - protect against children;

S 24 - avoid contact with skin;

S 37 – wear special protective gloves

S 46 - in case of indigestion, seek medical advice – show the packaging or the label.

S60 - product and packaging should be removed as hazardous waste



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It contains: 5-chlor-2-methyl-2H-isotiasol-3-on mixed with 2-methyl-2H-isotiasol-3-on (3:1) and 1% chlorine quaternary ammonia compounds- benzyl chlorine (C8-18) Alkyl methyl ammonia

-concentrations of active substances:

1000 g of preparation contains:

-0,3 g ; 5-chlor-2-methyl-2H-isotiasol-3-on mixed with 2-methyl-2H-isotiasol-3-on (3:1)

-10 g ; chlorine quaternary ammonia compounds- benzyl chlorine -(C8-18)- Alkyl methyl ammonia

Legal basis: Resolution in respect of the criteria and ways of classifying hazardous substances and preparations issued by the Minister of Health on 2nd September 2003 (Journal of Laws No 171 item 1666 dated on 2003) as well as Resolution in respect of packaging designation for hazardous substances and preparations issued by the Minister of Health on 2nd September 2003 (Journal of Laws No 173 item 1679 dated on 2003).

This data sheet has been prepared in compliance with Resolution in respect of description of hazardous substances and hazardous preparations issued by the Minister of Health on 14th December 2004 (Journal of Laws No 2 item 8 dated on 2005).

16. Other information:

The above mentioned information is based on our current level of knowledge about the product. The manufacturer does not take responsibility for any damage and loss which may result from any inadequate application of the product.

Complete text of Phrases R is stated in Material Data Safety Sheet.

R21/22 - hazardous in contact with skin and when swallowed.

R23/24/25 - toxic for respiration, in contact with skin and when swallowed.

R34 - it causes burns.

R 43 - it can cause allergy in the case of contact with skin;

R 50 – it is toxic for water organisms

R50/53 – it causes unbeneficial changes in the water environment.

Other regulations:

- Act on chemical substances and preparations dated on 11th January 2001 (Journal of Laws No 11, item 84 dated on 2001) with later amendments,
- Resolution in respect of hazardous substances with their classification issued by the Minister of Health dated on 2nd September 2003 (Journal of Laws No 199 item 1948 dated on 2003),
- Resolution in respect of the description of hazardous substances and their classification issued by the Minister of Health on 28th September 2005 (Journal of Laws No 201 item 1674),
- Resolution in respect of the description of hazardous substances and preparations issued by the Minister of Health on 3rd July 2002 (Journal of Laws No 140, item 1171),



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- Resolution in respect of the criteria and classification of hazardous substances and preparations issued by the Minister of Health on 2nd September 2003 (Journal of Laws No 171, item 1666),
- Resolution in respect of designation of hazardous substances' and preparations' packaging issued by the Minister of Health on 2nd September 2003 (Journal of Laws No 173, item 1679) with later amendments,
- Act dated on 26th June 1974 Code of Labour (the unified text; Journal of Laws No 21 item 94 dated on 1998) with later amendments,
- Resolution in respect to general safety and hygiene regulations issued by the Minister of Labour and Social Policy dated on 26th September 1997 (Journal of Laws No 129 item 844) with later amendments,
- Act dated on 26th June 1974 Code of Labour (the unified text; Journal of Laws No 21 item 94 dated on 1998) with later amendments,
- Resolution in respect to general safety and hygiene regulations issued by the Minister of Labour and Social Policy dated on 26th September 1997 (Journal of Laws No 129 item 844) with later amendments,
- Act on road transportation of hazardous substances dated on 28th October 2002 (Journal of Laws No 199, item 1671),
- Government Statement in respect of Appendices A and B of the European Agreement on international transportation of hazardous products by road (ADR), dated on 24th September 2002 prepared in Geneva on 30th September 1957 (Journal of Laws No 19, item 1629),
- Resolution in respect of research and measurement of factors hazardous to health in the working environment issued by the Minister of Health and Social Care dated on 11th September 1996 (Journal of Laws No 86, item 394),
- Act Law in Environmental Protection dated on 27th April 2001 (Journal of Laws No 62, item 627),
- Resolution in respect of waste catalogue issued by the Minister of Environment dated on 27th September 2001. (Journal of Laws No 112, item 1206).