



German metal Surface treatment Chemicals Co.
Research and Development Department
Detergent and disinfectant Division

MATERIAL SAFETY DATA SHEET

Odor remover

MANUFACTURER:

German metal surface treatment (SUGEST)

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1. Product and Company Identification

NAME Odor remover
USE used as odor remover
LABEL Odor remover
Company German metal surface treatment chemicals co.

2. Product Description

Odor remover is an odor eliminator that neutralizes odor-causing molecules and delivers a fresh, long-lasting fragrance.

3. Hazards Identification

Emergency Overview

CAUTION!

MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

May be harmful if swallowed. Slightly irritating to the eyes. Do not ingest. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that can cause target organ damage. Wash thoroughly after handling.

KEEP OUT OF REACH OF CHILDREN.

Potential Health Effects

HMIS: Health 3 Flammability 1 Reactivity 0 Personal Protection: B
 4 = extreme 3 = high 2 = moderate 1 = slight

- **Inhalation:** No known significant effects or critical hazards.
- **Skin contact:** irritation occurs and corrosive promoter. Do not use undiluted on skin.
- **Eye contact:** irritating to the eyes. Damage particularly on mucous membranes of eyes. Avoid contact with eyes.
- **Ingestion:** Harmful if swallowed, may cause irritation to mouth, throat and stomach.
- **Chronic effects:** Contains material that can cause target organ damage.
- **Mutagenic effects:** Mutagenic for mammalian somatic cells. [Benzalkonium chloride]. Mutagenic for bacteria and/or yeast.



Corrosion/Irritation



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4. Chemical Composition

Ingredient	CAS No	Percent
Benzalkonium chloride	8001 – 54 - 5	10 - 30
Water	7732 – 18 - 5	To 100

5. Physical and Chemical Properties

Appearance	liquid
Odor	aromatic
pH	5 - 8
Solubility in water	Completely soluble in water

6. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Skin contact:

Remove contaminated clothing and footwear. For skin contact, flush with large amounts of water. Irritation persists seek immediate medical attention.

Eye contact:

In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and if irritation persists, seek immediate medical attention.

Ingestion:

Seek medical advice. DO NOT induce vomiting unless directed to do so by medical personnel. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children.

7. Fire Fighting Measures

Flammable properties This material is assumed to be combustible

Suitable extinguishing media Water spray, dry chemical, carbon dioxide, or foam as appropriate for surrounding fire and materials.



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Hazardous thermal decomposition products : May be sulfur oxides, metal oxide/oxides, oxides of nitrogen.

8. Accidental Release Measures

Use personal protection recommended in Section 10 , isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:

Do not flush into surface water or sanitary sewer system.

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill:

Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed.

Call for assistance on disposal.

Clean-up methods:

Eliminate all ignition sources. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

9. Handling and Storage

Handling:

Avoid contact with eyes, skin and clothing. Avoid breathing mists or aerosols of this product. Provide adequate ventilation. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.

KEEP OUT OF REACH OF CHILDREN AND PETS. Use only as directed.

Keep away from heat and sources of ignition.

Storage:

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use.

Keep at temperatures between 20 and 25°C (68-77°F).

Keep away from heat, open flames or other sources of ignition.

Container Type Packaging must comply with requirements of Hazardous Substances (Packaging) Regulations 2001.

For information on product shelf life, please review labels on container.

10. Exposure Controls/Personal Protection

Engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Respiratory protection:

Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.

Eye/face protection:

Safety glasses.

Skin protection:

For prolonged or repeated handling, use gloves. Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves.

General hygiene considerations Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.



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11. Stability and Reactivity

Chemical stability Stable at normal conditions.

Conditions to avoid Not available.

Incompatible materials Oxidizing agents, anionic detergents, nitrates, permanganates, silicylates, silver salts, and tartrates.

Hazardous decomposition products Hydrogen chloride. Nitrogen oxides (NOx).

Possibility of hazardous reactions Hazardous polymerization does not occur.

12. Toxicological information

I- Benzalkonium chloride

Routes of Entry

Absorbed through skin. Eye contact.

Toxicity to Animals

Acute Dermal LD50 Rat: 1420 mg/kg

Acute Inhalation LC50 Rat: 53 mg/m³ 4 hours

Acute Oral LD50 Mouse: 150 mg/kg

Acute Oral LD50 Rat: 240 mg/kg

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Chronic Effects on Humans carcinogenic effects: Classified A4 (Not classifiable for human or animal.) by ACGIH

MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.

TERATOGENIC EFFECTS: Classified PROVEN for human

DEVELOPMENTAL TOXICITY: Classified Development toxin [PROVEN] [Ethyl alcohol].

Classified Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE] [Ethyl alcohol].

Contains material which may cause damage to the following organs: kidneys, the reproductive system, heart, gastrointestinal tract, cardiovascular system, skin.

Other Toxic Effects on Humans Very hazardous in case of skin contact (irritant), of ingestion.

Hazardous in case of skin contact (corrosive), of eye contact (corrosive), of inhalation.

Special Remarks on Chronic Effects on Humans May affect genetic material (mutagenic).

May cause adverse reproductive effects based on animal test data.

No adverse reproductive effects have been reported after oral treatment of rats and guinea pigs and dermal administration to rats. (Benzalkonium chloride).

Ecotoxicity :

I- Benzalkonium chloride

LC50 Bluegill (Lepomis macrochirus): 0.223 - 0.46 mg/l 96 hours

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

13. Disposal Considerations

Disposal method:

Industrial setting: Disposal is according to all federal , state and local authorities for restrictions on disposal of chemical waste ,manage chemical, waste through an approved waste treatment facility , do not reuse empty container in accordance with current local community codes please recycle empty container whenever possible.



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Household setting : Consumer may discard empty container in trash, or recycle where facilities exist.

14. Transport information

DOT Classification: Class 8: Corrosive material
 Land, Sea **IMDG (Marine Transport)** , **IATA/ICAO (Air)** Transport
 UN Number: 3265
 Shipping Name: Odor remover
 Packing Group: III



15. Other Information

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

WHMIS (Canada):

CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC). CLASS E: Corrosive liquid.

DSCL (EEC):

R34- Causes burns. S1/2- Keep locked up and out of the reach of children. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37- Wear suitable protective clothing and gloves. S39- Wear eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. Packing

HDPE container and sealed cap

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