



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

MATERIAL SAFETY DATA SHEET

Biostar 3W

Glass Cleaner Ammonia Free

MANUFACTURER:

German metal surface treatment (SUGEST)

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1. Product and Company Identification

NAME	Biostar 3W
USE	used in glass cleaner.
LABEL	Biostar 3W
Company	German metal surface treatment chemicals co.

2. Product Description

Biostar 3W is a professional product formulated to clean mirrors and glass surfaces from dirt and soils to keep it clean with sparkling affect. Works great without an unpleasant ammonia smell.

3. Hazards Identification

Emergency Overview

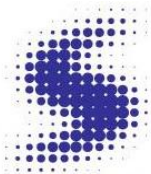
The product contains no substances which at their given concentration, are considered to be hazardous to health.

The preparation does not need to be labelled in accordance with Directive 1999/45/EC, or Annex VI to 67/548/EEC. The preparation is non-dangerous in accordance with Directive 1999/45/EC.

Potential Health Effects

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

- **Inhalation:** No known significant effects or critical hazards..
- **Skin contact:** May cause skin irritation.
- **Eye contact:** Moderately irritating to the eyes.
- **Ingestion:** Harmful if swallowed, may cause irritation to mouth, throat and stomach .



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4. Chemical Composition

Ingredient	CAS No	Percent
Anionic surfactants	Property	1 - 5
Ethanol	67 - 63- 0	5 - 10
Water	7732 – 18 - 5	80 - 90

5. Physical and Chemical Properties

Test	Specification
Description	Clear green liquid
pH as it is at 20 °C	8.5 to 10.5
Density g/cm ³	0.942 – 1.01

6. First Aid Measures

Inhalation:

Remove to fresh air.

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:

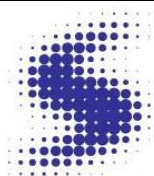
Seek medical advice. DO NOT induce vomiting unless directed to do so by medical personnel. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

7. Fire Fighting Measures

Fire: In a fire or if heated, a pressure increase will occur and the container may burst.

Explosion: This solution is not considered to be an explosion hazard.

Fire Extinguishing Media: water spray foam carbon dioxide (CO₂) dry chemical.



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Special Information: Although this product has a flash point below 200 Deg. F, it is an aqueous solution containing an alcohol and does not sustain combustion.

Hazardous combustion products:

Acid and heat accelerate decomposition.

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.

Clean-up methods:

Eliminate all ignition sources. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

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:

Storage Conditions: Store in a cool, dry and good ventilated place. Keep container tightly closed after opening. Prevent direct sun light or ignition sources. And keep away acids

Temperature Limit: max 35 °C.

Maximum Storage Period: 24 Months under standard storage conditions.

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

Hazardous components	ACGIH TLV	OSHA PEL
Propan-2-ol	200 ppm STEL	400 ppm TWA

Engineering controls:

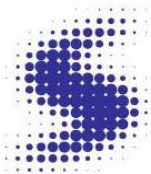
Ventilation Requirements No special ventilation requirements General room ventilation is adequate.

Respiratory protection:

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

Eye/face protection:

Safety glasses.



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Skin protection:

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

11. Stability and Reactivity

Stability: Stable

Polymerization: Hazardous polymerization does not occur

Hazardous decomposition products: Ammoniacal vapors.

Materials to avoid: Do not mix with chlorinated products.

Conditions to avoid: Do not mix with any other product or chemical, Strong oxidizers .

Hazardous Decomposition Products: carbon oxides (CO, CO₂)

12. Toxicological information

Acute Oral LD50 : Oral, LD50 estimated to be greater than 5000 mg/kg, Dermal, LD50 estimated to be > 2000 mg/kg.

Acute oral toxicity : LD50 estimated > 5,000 mg/kg

Acute inhalation toxicity : LC50 > 2.5 mg/l

Acute dermal toxicity : LD50 estimated > 2,000 mg/kg

Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Persistence and degradability

Ecological injuries are not known or expected under normal use.

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.

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

14. Transport information

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

Land and Sea Transport

UN Number: NONE

Shipping Name: Biostar 3W

Packing Group: NONE

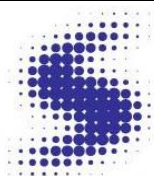
15. Other Information

International Inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Philippines (PICCS).

U.S. Regulations

OP 07.3 F04 R1



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California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

STATE RIGHT TO KNOW

Ingredient	CAS	MARTK	NJRTK	PARTK	RIRTK	ILRTK	CTR TK
Isopropyl alcohol	67-63-0	Listed	Listed	Listed	Listed	Listed	Listed

Canada

None known

16. Packing

Packaging type: HDPE containers and sealed cap.

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