



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

# **MATERIAL SAFETY DATA SHEET**

## **Biostar 04 MX**

### **Multi-purpose cleaner and disinfectant**

#### **MANUFACTURER:**

**German metal surface treatment (SUGEST)**

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#### **1. Product and Company Identification**

**NAME** Biostar 4MX  
**USE** used as multi-purpose cleaner and disinfectant.  
**LABEL** Biostar 4MX  
**Company** German metal surface treatment chemicals co.

#### **2. Product Description**

**Biostar 4MX** is Liquid surface cleaners use in a variety of applications in the Industrial based on powerful complex from ionic, special non-ionic surfactants, Germicidal and organic solvent designed to remove all soils and disinfectant within a short time of application.

#### **3. Hazards Identification**

##### **Emergency Overview**

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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
Nonionic surfactant	Property	1 - 5
Anionic surfactant	Property	5 - 15
Chloroxylenol	88 - 04 - 0	0.1 - 2
Propan-2-ol	67 - 63- 0	5 - 10
Water	7732 - 18 - 5	To 100

#### 5. Physical and Chemical Properties

<b>Appearance</b>	liquid Multi colored according delivery
<b>Odor</b>	Fragrance
<b>pH</b>	9.6 - 11
<b>Solubility in water</b>	Completely soluble in water
<b>Density</b>	0.981 to 1.031 g/cm <sup>3</sup>

#### 6. First Aid Measures

**Inhalation:**

Remove to fresh air.

**Skin contact:**

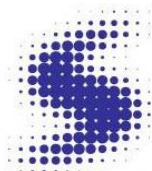
Remove contaminated clothing and footwear. For skin contact, flush with large amounts of water. irritation persists seek immediate medical attention.

**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.



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## 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 (CO<sub>2</sub>) dry chemical.

**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 sealed 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 <b>STEL</b>	400 ppm <b>TWA</b>
Chloroxylenol	N/A	N/A



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**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.

**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, carbon oxides (CO, CO<sub>2</sub>).

**Materials to avoid:** Do not mix with chlorinated products.

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

## 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

**Chloroxylonol:** oral LD50 = 3830 mg/kg (rat) - 1 g/kg (mouse)

**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.

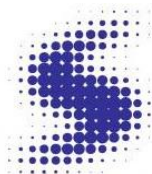
**Household setting :** Consumer may discard empty container in trash, or recycle where facilities exist.

## 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



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Shipping Name: Biostar 4MX  
 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

**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	CTRTK
Isopropyl alcohol	67-63-0	Listed	Listed	Listed	Listed	Listed	Listed

### 16. Packing

**Packaging type:** HDPE containers and sealed cap.

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