



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

# **MATERIAL SAFETY DATA SHEET**

## **Biostar DPX**

### **Pine Disinfectant**

#### **MANUFACTURER:**

**German metal surface treatment (SUGEST)**

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

**NAME** Biostar DPX  
**USE** used as multi-purpose disinfectant.  
**LABEL** Biostar DPX  
**Company** German metal surface treatment chemicals co.

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

**Biostar PBX** is antiseptic and disinfectant product effective in killing bacteria and microorganism.

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

#### **Emergency Overview**

Warnings: For external use only.

Do not use: in the eyes or over large areas of the body.

Ask a doctor before use if you have: deep wounds or puncture wounds, animal bites or serious burns.

Stop use and ask a doctor if: irritation, sensitization, or allergic reaction occurs. These may be signs of a serious condition.

Stop use and ask a doctor if: the condition gets worse or lasts more than one week.

KEEP OUT OF REACH OF CHILDREN.

#### **Potential Health Effects**

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

- **Inhalation:** No known significant effects or critical hazards.
- **Skin contact:** Discontinue use (as an antiseptic) if rash or irritation occurs. Do not use undiluted on skin.
- **Eye contact:** Moderately irritating to the eyes. Avoid contact with eyes.
- **Ingestion:** Harmful if swallowed, may cause irritation to mouth, throat and stomach .
- **Chronic effects:** The finished product is not expected to have chronic health effects.



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#### 4. Chemical Composition

Ingredient	CAS No	Percent
Pine oil	8002 – 09 - 3	5 - 10
Chloroxylenol	88 – 04 – 0	5 - 10
Isopropyl alcohol	67 - 63- 0	10 - 30
Water	7732 – 18 - 5	To 100

#### 5. Physical and Chemical Properties

Test	Specification
Description	Clear Green or Caramel liquid
Odor	Pine
pH as it is at 20 °C	8 to 9.5
Density g/ml at 20 °C	0.98 to 1.1
Solubility	milky after dilution with water

#### 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:**



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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.

**Notes to physician**

Contains pine oil.

**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** Combustible by OSHA criteria.

**Suitable extinguishing media** Dry chemical. Foam. Carbon dioxide.

**Protective equipment for firefighters** Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous combustion products** May include and are not limited to: Oxides of carbon.

## 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. 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:**

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

**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.



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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
Pine oil	Mist: 5 mg/m <sup>3</sup>	N/A

### 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.

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

## 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, Acid, Strong oxidizers .

**Hazardous Decomposition Products:** carbon oxides (CO, CO<sub>2</sub>)

## 12. Toxicological information

### Component analysis - LC50

#### Ingredient(s)

Chloroxylenol	<b>LC50</b>	6.29 mg/l/4h rat
Isopropanol	<b>LC50</b>	16970 mg/l/4h rat
Pine oil		Not available

### Component analysis - LD50

#### Ingredient(s)

Chloroxylenol	<b>LD50</b>	3830 mg/kg rat
Isopropanol	<b>LD50</b>	4396 mg/kg rat
Pine oil	<b>LD50</b>	3200 mg/kg rat

### Ecotoxicity

Components of this product have been identified as having potential environmental concerns.

### Ecotoxicity - Freshwater Algae Data



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Isopropanol 96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L;  
 72 Hr EC50 Desmodesmus subspicatus: >1000 mg/L

**Ecotoxicity - Freshwater Fish Species Data**

Chloroxylenol 96 Hr LC50 Oncorhynchus mykiss: 0.13-1.0 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 1.3-2.1 mg/L [static]  
 Isopropanol 96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >1400000 µg/L

**Ecotoxicity - Water Flea Data**

Chloroxylenol 48 Hr EC50 Daphnia magna: 6.7 - 9 mg/L [Static]  
 Isopropanol 48 Hr EC50 Daphnia magna: 13299 mg/L  
 Pine oil 48 Hr EC50 Daphnia magna: 17 - 28 mg/L [Flow through]

### 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, Sea **IMDG (Marine Transport)** , **IATA/ICAO (Air)** Transport

UN Number: 1993

Shipping Name: Biostar DT

Packing Group: III

Flammable Liquid N.O.S (Isopropyl alcohol, Pine Oil), Class 3

### 15. Other Information

**US Federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

Isopropanol 67-63-0 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

**Occupational Safety and Health Administration (OSHA)**

**29 CFR 1910.1200 hazardous** Yes **chemical**

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - Yes

Pressure Hazard - No



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Reactivity Hazard – No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**State regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Isopropanol 67-63-0 Present

**U.S. - Massachusetts - Right To Know List**

Isopropanol 67-63-0 Present

**U.S. - Minnesota - Hazardous Substance List**

Isopropanol 67-63-0 Present

**U.S. - New Jersey - Right to Know Hazardous Substance List**

Isopropanol 67-63-0 sn 1076  
Pine oil 8002-09-3 sn 2684

**U.S. - Pennsylvania - RTK (Right to Know) List**

Isopropanol 67-63-0 Environmental hazard

**U.S. - Rhode Island - Hazardous Substance List**

Isopropanol 67-63-0 Toxic; Flammable

## 16. Packing

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

**DISCLAIMER:** *The data contained herein are furnished for information only and are believed to be reliable. However, SUGEST and its affiliates ("SUGEST") does not assume responsibility for any results obtained by persons over whose methods SUGEST has no control. It is the user's responsibility to determine the suitability of SUGEST's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any SUGEST's products. In light of the foregoing, SUGEST specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of SUGEST's products. SUGEST further disclaims any liability for consequential or incidental damages of any kind, including lost profits.*