



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

# MATERIAL SAFETY DATA SHEET

## Biostar 11 D Laundry Emulsifier

### MANUFACTURER:

**German metal surface treatment (SUGEST)**

P.O. Box 2951, Riyadh 11461, K.S.A.

Tel: (00966) (01) 4647711 (20 Lines)

Fax: (00966) (01) 2170866

### 1. Product and Company Identification

**NAME** Biostar D11  
**USE** used as liquid emulsifier laundry detergent  
**LABEL** Biostar D11  
**Company** German metal surface treatment chemicals co.

### 2. Product Description

**Biostar D11** is liquid emulsifier for removing grime, waxy, shoe polish and lipstick soils. It is not recommended to be used along with the main wash detergent.

### 3. Hazards Identification

#### Emergency Overview

-----

Classified as non-hazardous according to Worksafe Australia

This is a clear liquid, no fragrance added.

Meets Green Seal's requirements for acute toxicity at the as-used dilution.

#### Potential Health Effects

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

**Inhalation:** No adverse effects expected under typical use conditions. Adequate ventilation should be present for prolonged usage in small enclosed areas.

**Skin contact:** No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Chemically sensitive individuals may experience mild irritation.

**Eye contact:** Minimal Irritant

**Ingestion:** Harmful if swallowed, may cause irritation to mouth, throat and stomach .



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

**Medication Conditions Aggravated by Exposure:** Dermally sensitive users may experience irritation.

#### 4. Chemical Composition

Ingredient	CAS No	Percent
Sodium Lauryl Ether Sulfate	68585 – 34 - 2	1 - 20
Nonionic Ethoxylated alcohol	68002-97-1	10 - 30
Water	7732 – 18 - 5	To 100

#### 5. Physical and Chemical Properties

Test	Specification
Description	Translucent colourless to pale yellow
pH, undiluted at 20 °C	9 - 11
pH, product as used at 20 °C	7 – 8.5
Density g/cm <sup>3</sup> at 25 °C	1.0030 - 1.0043

#### 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 10 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.



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

## 7. Fire Fighting Measures

**Fire:** Non flammable

**Fire Extinguishing Media:** water spray foam carbon dioxide (CO<sub>2</sub>) dry chemical.

**Hazardous combustion products:** In event of fire created carbon oxides may be formed.

## 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:**

Prevent runoff from entering drains, sewers or waterways.

**Clean-up methods:**

Eliminate all ignition sources. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dilute with water and rinse into sanitary sewer system or dispose into suitable container.

## 9. Handling and Storage

**Handling:**

Before use carefully read the product label. Use of safe work practices are recommended to avoid eyes or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated area (eg. If container is damaged).

**Storage:**

Store in dry, well-ventilated area. Keep containers tightly closed when not in use. Removed from oxidizing agents, acids and foodstuffs. Ensure containers are adequately labeled and protected from physical damage when not in use.

**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.

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

## 10. Exposure Controls/Personal Protection

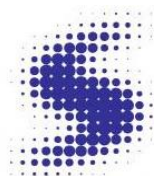
**Exposure Limit Values:** Not applicable

**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.



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

**Eye/face protection:** Safety glasses.

**Skin protection:** For prolonged or repeated handling, use gloves.

**General Hygiene Considerations:** Avoid direct contact with eyes.

## 11. Stability and Reactivity

**Stability:** Stable

**Polymerization:** Hazardous polymerization does not occur

**Hazardous decomposition products:** May start to hydrolyze > 50 °C.

**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

**Effects of Exposure:** Irritated eyes, cough and irritation of nasal passageway.

**Acute**

**Acute Toxicity:**

Oral LD50 (rat) > 5 g/kg body weight

Dermal LD50 (rabbit) > 2 g/kg body weight

Calculated via OECD Harmonized Integrated Classification System for Human Health & Environmental Hazards of Chemical Substances and Mixtures

**Carcinogens:** No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

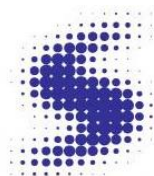
- **Ecotoxicity:** The product is toxic to aquatic organisms.
- **Ecological Overview:** Not expected to cause significant environment impact.
- **Mobility:** The product will dissolve in water.
- **Persistence / Degradability:** This product is readily biodegradable with respect to EC criteria.
- **Bio-accumulation:** Product is surface active, Log Pow inappropriate.
- Do not release into surface waters.

## 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.



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

## 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 D 11

Packing Group: NONE

## 15. Other Information

### International Inventories

All chemicals listed on the Australian Inventory of Chemical Substances (AICS)

**Poison Schedule:** A poison schedule number has not been allocated to this product using the criteria in the standard for the Uniform Scheduling of Drugs and Poisons (SUSDP)

## 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.*