



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)

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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 .



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

4. Chemical Composition

Ingredient	CAS No	Percent
Sodium Lauryl Ether Sulfate (anionic surfactant)	68585 – 34 - 2	1 - 20
Nonionic Surfactant (Conditioner)	68439-50-9	10 - 30
Sodium hydroxide	1310-73-2	1 - 5
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 ³ 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.



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7. Fire Fighting Measures

Fire: Non flammable

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

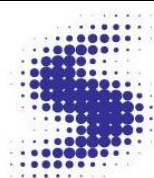
Exposure Limit Values: Not applicable

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.



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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.



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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.

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