OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
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Tel: +91 250 2390032 / 2390989 / 2390990
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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

CHES BUFFER 99%
(Bio Reagent)
2-(Cyclohexylamino)Ethanesulfonic Acid
MSDS CAS: 103-47-9

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: CHES BUFFER
CAS#: 103-47-9
Synonym: 2(Cyclohexylamino)ethanesulphonic acid
Chemical Name: CHES BUFFER
Chemical Formula: $C_8H_{17}NO_3S$

Brand : OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight	Hazardous
CHES Buffer	103-47-9	99 - 100%	Yes

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Section 3: Hazards Identification

Emergency Overview

WARNING! CAUSES IRRITATION. HARMFUL IF SWALLOWED OR INHALED. FOR LABORATORY USE ONLY. HYGROSCOPIC.

SAF-T-DATA Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate
Flammability Rating: 0 - None
Reactivity Rating: 1 - Slight
Contact Rating: 2 - Moderate
Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES
Storage Color Code: Green (General Storage)

Potential Health Effects:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Inhalation: **Irritation of respiratory system, may be harmful.**
Ingestion: **May be irritant to the gastro-intestinal tract. may be harmful.**
Skin Contact: **May be irritant may be harmful.**
Eye Contact: **May be irritant**
Chronic Exposure: **No information found.**
Aggravation of Pre-existing Conditions: **No information found.**

Section 4: First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact:

In case of contact, immediately wash skin with plenty of soap and water for at least 15 minutes.

Eye Contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.

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Section 5: Fire and Explosion Data

Fire: Not expected to be a fire hazard.

Explosion: None identified.

Fire Extinguishing Media: Water, dry chemical, foam or carbon dioxide.

Special Information:
Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Section 6: Accidental Release Measures

Take up by mechanical means (avoid dust formation) and place into sealed containers for adequate disposal. DO NOT allow to enter in the sewage or ground waters. Wash contaminated area well with soap and water.

Section 7: Handling and Storage

Store at room temperature. Keep containers tightly closed and dry. Avoid contact with skin and eyes. Avoid dust formation Store in a dry area. Material is hygroscopic. Use with adequate ventilation. Keep container closed.
Wash thoroughly after handling. Containers of this material may be hazardous when empty since they retain Product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8: Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System:
A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

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Section 8: Exposure Controls/Personal Protection (Continued)

Personal Respirators (NIOSH Approved):
For conditions of use where exposure to the substance is apparent and engineering controls are not feasble, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:
Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:
Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Other Control Measures:
There is insufficient data in the published literature to assign complete numerical SAF-T-DATA* ratings and laboratory protective equipment for this product. Special precautions must be used in storage, use and handling. Protective equipment for laboratory bench use should be chosen using professional judgment based on the size and type of reaction or test to be conducted and the available ventilation, with overriding consideration to minimize contact with the chemical.

Section 9: Physical and Chemical Properties

Appearance	**: White crystalline powder.**
Odor	**: odourless**
Molecular Weight	**: 207.29 g/mole**
Solubility	**: Negligible (< 0.1%)**
Specific Gravity	**: No information found.**
pH	**: 3-5**
% Volatiles by volume @ 21C (70F):	**No information found.**
Boiling Point	**: No information found.**
Melting Point	**: 300°C (572F)**
Vapor Density (Air=1)	**: No information found.**
Vapor Pressure (mm Hg)	**: No information found.**
Evaporation Rate (BuAc=1)	**: No information found.**

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Section 10: Stability and Reactivity Data

Stability: **Stable under ordinary conditions of use and storage.**

Hazardous Decomposition Products:
Oxides of nitrogen, oxides of sulfur, carbon monoxide, carbon dioxide.

Hazardous Polymerization: **Will not occur.**

Incompatibilities: **Strong oxidizing agents, strong bases.**

Conditions to Avoid: **No information found.**

Section 11: Toxicological Information

----------\Cancer Lists\----------

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
CHES (103-47-9)	No	No	None

Section 12: Ecological Information

Environmental Fate: **No information found.**

Environmental Toxicity: **No information found.**

Section 13: Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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Section 14: Transport Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG) [English only]

General information : Not regulated.

Air transport (ICAO-IATA) [English only]

General information : Not regulated.

Section 15: Other Regulatory Information

----------\Chemical Inventory Status - Part 1\----------

Ingredient	TSCA	EC	Japan	Australia
CHES (103-47-9)	Yes	Yes	No	Yes

----------\Chemical Inventory Status - Part 2\----------

--Canada--

Ingredient	Korea	DSL	NDSL	Phil.
CHES (103-47-9)	No	No	Yes	No

--------\Federal, State & International Regulations - Part 1\----------

-SARA 302- ------SARA 313-

Ingredient	RQ	TPQ	List	Chemical Catg.
CHES (103-47-9)	No	No	No	No

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Section 15: Other Regulatory Information (Continued)

--------\Federal, State & International Regulations - Part 2\----------

	-RCRA-	-TSCA-	
Ingredient	**CERCLA**	**261.33**	**8(d)**
CHES (103-47-9)	**No**	**No**	**No**

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No
Reactivity: No (Pure / Solid)

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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