



Oxyrase Inc.

Safety Data Sheet

LAB.0086.v001

Effective Date: March 25, 2015

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: EC/NS (non-sterile) Oxyrase[®] Enzyme System

Product Number: EC/NS-0005 / EC/NS-1000

1.2 Manufacturer Name

Company: Oxyrase Inc.
3000 Park ave. West
Mansfield, OH 44906
USA

1.3 Emergency Phone Number

Emergency Number: 419-589-8800

1.4 Recommended and Restrictions of Use

Recommended Used: In-vitro Diagnostics

2. HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements and precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC)

Not a hazardous substance or mixture.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Classification of substance or mixture:

Principle Components:	%	CAS #:
Phosphate buffer	>90	–
Other Components:	<10	
DL-Lactic Acid Sodium Salt		312-85-6
Oxyrase [®] Enzyme System		–

4. FIRST AID MEASURES

4.1 Description of first aid measures:

Eye Contact: Flush eyes with plenty of water. If irritation develops, seek medical advice.

Skin Contact: Wash off with copious amounts of water. If irritation develops, seek medical advice.

Inhalation: Remove to fresh air. If breathing becomes difficult, seek medical advice.

Ingestion: Rinse out mouth with water. If irritation develops, seek medical advice.

4.2 Most important symptoms / effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water spray. Carbon dioxide, dry chemical powder, or foam.

5.2 Special hazards arising from the substance or mixture

No data available.

5.3 Protective equipment and precautions

No data available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No data available.

6.2 Environmental precautions

No data available.

6.3 Methods and materials for containment and cleaning up

Absorb onto / using absorbent paper, and discard into trash receptacle. (If inoculated with microorganisms, autoclave or incinerate prior to disposal, and disinfect contacted areas.)

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes. Do not ingest.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in temperatures at -20°C or colder.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

No data available.

8.2 Appropriate engineering controls

No data available.

8.3 Personal protective equipment (PPE)

No protective materials needed / required when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance:	Light brown / tan solution (may see turbidity at 2°C to 8°C).
b)	Odor:	No data available.
c)	Odor threshold:	No data available.
d)	pH:	No data available.
e)	Melting pt. /range:	No data available.
f)	Boiling pt. / range:	No data available.
g)	Flash pt.:	No data available.
h)	Evaporation rate:	No data available.
i)	Flammability (solid,gas):	No data available.
j)	Upper flammability limit:	No data available.
k)	Lower flammability limit:	No data available.
l)	Vapor pressure:	No data available.
m)	Vapor density:	No data available.
n)	Relative density:	Dry Weight Solids: 30 mg / mL (or less)
o)	Water solubility:	Water soluble solution.
p)	Partition coefficient:	
	n-octanol / water:	No data available.
q)	Auto-ignition temperature:	No data available.
r)	Decomposition temperature:	No data available.
s)	Viscosity:	No data available.
t)	Explosive properties:	No data available.
u)	Oxidizing properties:	No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition of products

No data available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation:	No data available.
Eye contact:	No data available.
Skin contact:	No data available.
Ingestion:	No data available.

11.2 Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization:	No data available.
Mutagenic effects:	No data available.
Carcinogenicity:	No data available.
Reproductive toxicity:	No data available.
STOT* - single exposure:	No data available.
STOT* - repeated exposure:	No data available.
Aspiration hazard:	No data available.

(* - *specific target organ toxicity*)

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

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Bioaccumulation

No data available.

12.2 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal methods

This material is not regarded as hazardous waste. If inoculated with microorganisms, autoclave or incinerate prior to disposal. Must be disposed of in full compliance with all federal, state and local environmental regulations.

13.2 Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 DOT (US)

Not dangerous goods.

14.2 TDG (CAN)

Not dangerous goods.

15. REGULATORY INFORMATION

15.1 SARA 311 / 312 Hazards

No SARA Hazards.

15.2 California Proposition 65

This product does not contain any Proposition 65 chemicals.

15.3 New Jersey Right To Know Components

No components are subject to New Jersey Right To Know Act.

15.4 Massachusetts Right To Know Components

No components are subject to Massachusetts Right To Know Act.

15.5 Pennsylvania Right To Know Components

No components are subject to Pennsylvania Right To Know Act.

15.6 Illinois Right To Know Components

No components are subject to Illinois Right To Know Act.

15.7 Rhode Island Right To Know Components

No components are subject to Rhode Island Right To Know Act.

16. OTHER INFORMATION

16.1 HMIS Rating

Health Hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard:	0

16.2 NFPA Rating

Health Hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

16.3 Further Information

This product is for In-Vitro use only. Bacterial cell membrane fragments in 20mM Phosphate buffer. One unit of EC (and EC/NS) Oxyrase[®] activity will reduce dissolved oxygen (in 1 mL of air saturated 40 mM phosphate Buffer, pH 8.4, at 37C) at the rate of 1% per second from a suspension.

This information is intended to be used only as a guide and does not purport to be complete. Oxyrase Inc. shall not be held liable for the completeness or accuracy of this information or for any damage resulting from contact or use of the above product. All chemicals may present unknown health hazards and should be used with caution.

16.4 Preparation Information

Oxyrase Inc.
419-589-8800

Version.001

Revision Date: 2/24/2015

Effective Date: March 25, 2015