



Safety Data Sheet

Lipopolysaccharide, from Salmonella minnesota R595 (Re)
Product #304

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Lipopolysaccharide, from Salmonella minnesota R595 (Re)

Product number : 304

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : List Biological Laboratories, Inc.

540 Division Street

Campbell, CA 95008-6906, USA

Telephone : (408) 866-6363 Fax : (408) 866-6364

1.4 Emergency telephone number

24 Hour Emergency : 1 (800) 255-3924 ChemTel Domestic Phone # +1 (813) 248-0585 ChemTel International

ChemTel Customer # : MIS2844833

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 2), H302 Acute toxicity, Inhalation (Category 4), H332

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word Danger

Hazard statement(s)

H300 Fatal if swallowed. H332 Harmful if inhaled.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/vapours/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use in a well-ventilated area.

P280 Wear protective gloves/ protective clothing.

P301 + P310 + P312 + IF SWALLOWED: Call a POISON CENTER or doctor/physician if

P330 you feel unwell. Rinse mouth.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON

CENTER or doctor/physician if you feel unwell.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable to breathing. Get medical advice/attention.

P405 Store lock up.

P501 Dispose of contents/container to an approved waste disposal

plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Biohazard. Handle as if capable of transmitting infectious agents.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixtures

Synonym : LPS, endotoxin

Component	CAS No.	Percent (%)
Lipopolysaccharide	93572-42-0	100

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Move affected person out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution. Consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing media appropriate to surrounding fire conditions.

5.2 Special hazards arising from the substance or mixture

Not flammable or combustible.

5.3 Protective equipment and precautions for fire-fighters

Use an approved/certified respirator.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Wear appropriate laboratory attire including lab coat, gloves and safety glasses. Nitrile gloves are recommended when handling lyophilized material. Avoid formation of dust and aerosols. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust, vapors, mist or gas.

SDS for Product #304 Page 2 of 5

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

In case of a spill or a release, take precautions to minimize worker exposure.

Hold all material for appropriate disposal as described in Section 13 DISPOSAL CONSIDERATIONS.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Wear appropriate laboratory attire including lab coat, gloves and safety glasses. Nitrile gloves are recommended when handling lyophilized material. Avoid formation of dust and aerosols. Ensure adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store at $2 - 8^{\circ}$ C prior to and following reconstitution.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eyes

Wear safety goggles or glasses.

Skin

Handle with appropriate gloves. Wear nitrile gloves when handling the product in the lyophilized form. Wear appropriate laboratory clothing / lab coat.

Respiratory protection

Use respirators and components tested and approved under appropriate government standards; or, ensure adequate ventilation using engineering controls, such as a biological safety cabinet.

9. PHYSICAL AND CHEMICAL PROPERTIES

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a)	Appearance	Form: solid; Color: white
b)	Odor	Data not available
c)	Odor threshold	Data not available
d)	рН	Data not available
e)	Melting point / freezing point	Data not available
f)	Initial boiling point and boiling range	Data not available
g)	Flash point	Data not available
h)	Evaporation rate	Data not available
i)	Flammability (solid, gas)	Data not available
j)	Upper/Lower flammability or explosive limits	Data not available
k)	Vapor pressure	Data not available
l)	Vapor density	Data not available
m)	Relative density	Data not available
n)	Solubility	Easily soluble in water
o)	Partition coefficient: n-octanol/water	Data not available
p)	Auto-ignition temperature	Data not available
q)	Decomposition temperature	Data not available
r)	Viscosity	Data not available

SDS for Product #304 Page 3 of 5

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage 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 products

No data available

11. TOXICOLOGY INFORMATION

11.1 Information on toxicological effects

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

Acute toxicity

No data available

Inhalation: No data available
Dermal: No data available
Oral: No data available
Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

SDS for Product #304 Page 4 of 5

Additional Information

Lipopolysaccharide:

Signs and Symptoms of Exposure

Fever, shock

RTECS: OJ0895400

 $LD_{50} \ rat, \ 48.3 \ mg/kg \ iv; \ LD_{50} \ rat, \ 10 \ mg/kg \ ip; \ TD_{LO} \ mice, \ 20 \ mg/kg \ oral; \ TC_{LO} \ guinea \ pig,$

30,000 mg/m³/1H inhalation; TD_{LO} human, 4 ng/kg iv.

12. ECOLOGICAL INFORMATION

Product is unlikely to cause a concern to the environment.

13. DISPOSAL CONSIDERATIONS

Dispose of waste in accordance with appropriate federal, state and local regulations or applicable governmental requirements.

14. TRANSPORT INFORMATION

IATA

UN number: UN3462 Class: 6.1 Packing group: II

15. REGULATORY INFORMATION

OSHA Hazards

Acute toxicity

SARA

Not subject to reporting requirements and there are no Threshold Planning Quantities for this product.

California Prop. 65 Components

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

16. OTHER INFORMATION

Version: 1.0 / Issued Date: 05/2019

CAUTION – New drug – limited by United States law to investigational use.

The preceding information is based on available data and is believed to be correct, but does not purport to be all inclusive and should be used as a guide in handling this material. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists. List Biological Laboratories, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

SDS for Product #304 Page 5 of 5