

Safety Data Sheet



Revision Date: 9/13/2014

SDS # SDS-10229-01

10X Tris-Glycine-SDS Buffers

1. PRODUCT AND COMPANY IDENTIFICATION

| Product Description: | Product Code |
|------------------------------|--------------|
| 10X Tris-Glycine-SDS Buffers | 51-11-02 |
| 10X Tris-Glycine-SDS Buffers | 51-11-01 |
| 10X Tris-Glycine-SDS Buffers | 51-11-04 |
| 10X Tris-Glycine-SDS Buffers | 51-11-03 |

Hazardous Reagent
10X Tris-Glycine-SDS Buffers

Hazardous Reagent Product code
Catalog No. listed above

Recommended Use Reagent

Contact Manufacturer KPL, Inc.
910 Clopper Road
Gaithersburg, Maryland 20878
USA

Phone #: 1-301-948-7755
Fax #: 1-301-948-0169
Web: www.kpl.com
Email: kplmsds@seracare.com

Emergency Telephone Numbers:

| | | |
|--|-------------------------------|----------------------------------|
| AUSTRALIA – POISONS INFORMATION CENTER | Telephone: 13 11 26 | Hours: 24 hours |
| CANADIAN TRANSPORT EMERGENCY CENTER | Telephone: (1) 613 996 6666 | Hours: 24 hours/day, 7 days/week |
| UK – THE NATIONAL FOCUS | Telephone: (44) 029 2041 6388 | Hours: 09:00-17:00 GMT |
| USA- NATIONAL RESPONSE CENTER | Telephone: (1) 800 424 8802 | Hours: 24 hours/day, 7 days/week |

CHEMTREC: CHEMTREC Customer Number:- CCN12505*
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 CCN12505 or
+1 703-527-3887 (collect calls accepted)

2. HAZARD IDENTIFICATION

Hazard Type Data for 100% Sodium Dodecyl Sulfate: Combustible and Irritant

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

Classification Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 3), H402

Hazard Statement H315 Causes skin irritation.
H318 Causes serious eye damage.
H402 Harmful to aquatic life.

Precautionary Statement P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.

P321 Specific treatment (see supplemental first aid instructions on this label).
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before reuse.
 P501 Dispose of contents/ container to an approved waste disposal plant.

Symbols of Danger

GHS05
 Danger

**Data for 100% Hazardous Chemical**

ROUTES OF EXPOSURE: The substance can be absorbed into the body through the skin and by ingestion .

INHALATION RISK: Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.

SHORT-TERM EXPOSURE: The substance is irritating to the eyes, the skin and the respiratory tract .

LONG-TERM EXPOSURE: Repeated or prolonged contact with skin may cause dermatitis.

The product is a Mixture. It May Cause the following symptoms.

EYES: Redness. Pain.

SKIN: Redness.

INHALATION: Sore throat. Cough.

INGESTION: Nausea. Vomiting. Diarrhoea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Component</u> | <u>CHEMICAL</u> | <u>% Weight</u> | <u>CAS #:</u> |
|------------------------------|------------------------|-----------------|---------------|
| 10X Tris-Glycine-SDS Buffers | Sodium Dodecyl Sulfate | 1% | 151-21-3 |

Classification

Skin irritation (Category 2), H315
 Serious eye damage (Category 1), H318
 Acute aquatic toxicity (Category 3), H402

4. FIRST AID MEASURES

Data for 100% Hazardous Chemical

Ingestion First Aid: Rinse mouth. Refer for medical attention.

Inhalation First Aid: Fresh air, rest.

Skin First Aid: Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.

Eye First Aid: First rinse with plenty of water (remove contact lenses if easily possible). Refer for medical attention.

5. FIRE FIGHTING MEASURES

Data For 100% Hazardous Chemical

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| Fire Acute Hazard: Combustible. Gives off irritating or toxic fumes (or gases) in a fire. | Fire Prevention: NO open flames. | Fire Fighting: Powder, alcohol-resistant foam, water spray, carbon dioxide . |
| Explosion Acute Hazard: Not Available | Not Available | Not Available |
| CHEMICAL DANGERS: The substance decomposes on burning producing toxic and corrosive gases including carbon monoxide (See ICSC 0023, 0074 and 1202). Reacts with strong oxidants and strong acids . | | |
| PHYSICAL DANGERS: Not Available | | |

6. ACCIDENTAL RELEASE MEASURES

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|----------------------------------|--|
| Personal Precautions | Data for 100% Dodecyl Sulfate, Sodium Salt: Particulate filter adapted to the airborne concentration of the substance. |
| Environmental Precautions | Not Available |
| Method of Containment | Collect leaking and spilled liquid in sealable containers as far as possible. |
| Methods of Clean-up | Clean-up with copious amounts of water. |
| Other Information | Not Available |

Data for 100% Hazardous Chemical

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|--------------------------|--|
| SPILLAGE DISPOSAL | Personal protection: particulate filter adapted to the airborne concentration of the substance. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Do NOT let this chemical enter the environment. |
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7. HANDLING AND STORAGE

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| Handling: | Handle in accordance with good industrial hygiene and safety practice. |
| Storage: | Store at room temperature (22 – 28°C) |

Data for 100% Hazardous Chemical

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| STORAGE | Separated from strong oxidants and strong acids. Provision to contain effluent from fire extinguishing. Store in an area without drain or sewer access. |
|----------------|---|

8. EXPOSURE CONTROL

Data for 100% Hazardous Chemical

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|---------------------|--|
| • INHALATION | Ventilation, local exhaust, or breathing protection. |
| • EYES | Safety goggles. Safety spectacles |
| • SKIN | Protective gloves. |
| • INGESTION | Do not eat, drink, or smoke during work. |

Engineering Controls Not Available

9. PHYSICAL AND CHEMICAL PROPERTIES

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|-----------------------|--------------------------|--------------------------|
| Appearance | Clear Colorless Solution | |
| Physical State | Liquid | pH: Not Available |

Data for 100% Hazardous Chemical

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| Melting point: 204°C | Solubility in water, g/100ml at 20°C: 15 (moderate) | Octanol/water partition coefficient as log Pow: 1.6 |
|----------------------|---|---|

10. STABILITY AND REACTIVITY

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| Chemical Stability | Stable under normal conditions |
| Incompatibility Materials to Avoid | Data for 100% Dodecyl Sulfate, Sodium Salt: Strong oxidants and strong acids . |
| Hazardous Decomposition Products | Not Available |
| Hazardous Polymerization | Will not occur |

Data for 100% Hazardous Chemical

| | |
|--------------------------|--|
| CHEMICAL DANGERS: | The substance decomposes on burning producing toxic and corrosive gases including carbon monoxide (See ICSC 0023, 0074 and 1202). Reacts with strong oxidants and strong acids . |
| PHYSICAL DANGERS: | Not Available |

11. TOXICOLOGY MEASURES

Acute Toxicity

The toxicological risks are minor due to the low concentration of hazardous ingredients. The following toxicological information is for the hazardous ingredient in pure form.

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|------------------------|--|
| LD50 Oral | Data for 100% Dodecyl Sulfate, Sodium Salt: LD50 Rat 977 mg/Kg bw (Acutely Toxic) |
| LD50 Dermal | Data for 100% Dodecyl Sulfate, Sodium Salt: LD50 Rabbit 580 mg/Kg bw (Acutely toxic) |
| LC50 Inhalation | Not Available |

Chronic Toxicity

| | |
|------------------------------|---|
| Carcinogenicity | Not Applicable |
| Irritation | Data for 100% Dodecyl Sulfate, Sodium salt: Risk Phrases - R36/37/38 Irritating to eyes, respiratory system and skin; R 21/22 Harmful in contact with skin and if swallowed |
| Corrosivity | Not Applicable |
| Sensitization | Data for 100% Dodecyl Sulfate, Sodium salt: May produce Allergic sensitivity reactions |
| Neurological Effects | Not Applicable |
| Mutagenic Effects | Not Applicable |
| Reproductive Effects | Not Applicable |
| Developmental Effects | Not Applicable |
| Target Organ Effects | Not Applicable |
| Other adverse effects | Not Applicable |

12. ECOLOGICAL MEASURES

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|--|--|
| Ecotoxicity | Data for 100% Dodecyl Sulfate, Sodium Salt: Fish (Fundulus heteroclitus) Static 96hr LC50 1.2 mg/L (Slightly harmful in the aquatic environment or are otherwise designed for biocidal action) |
| Persistence/Degradability | Data for 100% Dodecyl Sulfate, Sodium Salt: Rapidly degradable |
| Mobility in Environmental Media | Not Available |

**Bioaccumulation/
Accumulation**Data for 100% Dodecyl Sulfate, Sodium Salt: Fish (Proterorhinus marmoratus 240 day
15°C 4 mg/L BCF 7.15 (Not bioaccumulative)**13. DISPOSAL MEASURES**

Waste Disposal Method: Observe all Federal, State and Local laws concerning health and pollution.

Contaminated Packaging: Not Available

US EPA Waste Number: Not Available

14. TRANSPORTATION MEASURES

DOT: Not Available

IATA: Not Available

ADR (road)/ RID (rail): Not Available

IMDG (sea): Not Available

General Transport Regulations Not Available

15. REGULATORY MEASURES

This product is a mixture that may contain one or more hazardous chemicals. The hazardous ingredients listed are only those as required by 29 CFR 1910.1200 (OSHA HCS).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (See 40 CFR 61)

Not Listed

State Regulations**California Proposition 65:**

This product contains the following Proposition 65 chemicals: None

State Right to Know Act

| | |
|----------------------|-------------------------------|
| Chemical Name | Sodium Dodecyl Sulfate |
| Massachusetts | Not Listed |
| New Jersey | Not Listed |
| Pennsylvania | Not Listed |
| New York | Not Listed |
| Rhode Island | Not Listed |

International Inventories

| | |
|----------------------|-------------------------------|
| Chemical Name | Sodium Dodecyl Sulfate |
| TSCA | Listed |
| DSL | Listed |
| NDSL | Not Listed |
| EINECS | Listed |
| CHINA | Listed |
| KECL | Listed |
| JAPAN: | Listed |
| AICS | |

EU Regulations

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|--|---|
| Annex I Index# | Sodium Dodecyl Sulfate: Annex # Not Available CAS No:151-21-3 EC No:205-788-1 SUBSTANCE GROUP CODE 122200 Sodium compounds 147875 Salts of sulphuric acid esters |
| Classification | Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 3), H402 |
| Risk Phrases | H315 Causes skin irritation. H318 Causes serious eye damage. H402 Harmful to aquatic life. |
| Safety Phrases | P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/ physician. P321 Specific treatment (see supplemental first aid instructions on this label). P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P501 Dispose of contents/ container to an approved waste disposal plant. |
| Symbols and Indications of Danger | GHS05 Danger |
| Specific Concentration Limits | Not Available |
| Export and Import | This substance is not listed in the Annex I of Regulation (EC) No 689/2008. |
| European Priority List | This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.). |

16. OTHER INFORMATION

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. KPL shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This material is sold for research purposes and is intended as laboratory reagents only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.

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