1 Identification

· **Product identifier**
  · **Trade name**: SDS (sodium dodecylsulfate)
  · **Catalog or product number**: 1610327, 1610301, 1610302, 9700037, 1610302EDU, 1610301XTU, 1610301EDU
  · **CAS Number**: 151-21-3
  · **EC number**: 205-788-1

· **Relevant identified uses of the substance or mixture and uses advised against**
  No further relevant information available.

· **Application of the substance / the mixture**
  Laboratory chemicals

· **Details of the supplier of the safety data sheet**
  · **Manufacturer/Supplier**: Bio-Rad Laboratories, Life Science Group
    2000 Alfred Nobel Drive
    Hercules, California 94547
    (510)741-1000
  · **Information department**: Technical services, customer support
    lsg_techserv_us@bio-rad.com
  · **Emergency telephone number**: 1(800)424-9300  Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT.

2 Hazard(s) identification

· **Classification of the substance or mixture**
  · Acute Tox. 4 H302 Harmful if swallowed.
  · Acute Tox. 3 H311 Toxic in contact with skin.
  · Skin Irrit. 2  H315 Causes skin irritation.
  · Eye Irrit. 2A  H319 Causes serious eye irritation.

· **Label elements**
  · **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
  · **Hazard pictograms**

        GHS06   GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**
  sodium dodecyl sulphate

· **Hazard statements**
  H302 Harmful if swallowed.
  H311 Toxic in contact with skin.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.

(Contd. on page 2)
Trade name: SDS (sodium dodecylsulfate)

Precautionary statements
- P280 Wear protective gloves.
- P280 Wear protective gloves / protective clothing.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P361 Remove/Take off immediately all contaminated clothing.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information: Contact with acids may cause release of toxic gases

Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Substances
- CAS No. Description:
  - 151-21-3 sodium dodecyl sulphate
- Identification number(s):
  - EC number: 205-788-1
- Additional information: For the wording of the listed risk phrases refer to section 15.

4 First-aid measures

- Description of first aid measures
  - After inhalation Supply fresh air; consult doctor in case of complaints.
  - After eye contact Rinse opened eye for several minutes under running water.
  - After swallowing Induce vomiting and call for medical help.
- Information for doctor
  - Most important symptoms and effects, both acute and delayed No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents
    CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
Trade name: SDS (sodium dodecylsulfate)

· Reference to other sections
  See Section 7 for information on safe handling
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

· Handling
  · Precautions for safe handling No special precautions are necessary if used correctly.
  · Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage
  · Requirements to be met by storerooms and receptacles: According to product specification
  · Information about storage in one common storage facility: Not required.
  · Further information about storage conditions: None.
  · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace: Not required.

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment
  · General protective and hygienic measures Wash hands before breaks and at the end of work.
  · Protection of hands: Protective gloves.
  · Material of gloves Synthetic gloves
  · Penetration time of glove material
    The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  · Eye protection: Safety glasses

9 Physical and chemical properties

· Information on basic physical and chemical properties

  · General Information

  · Appearance:
    · Form: Solid
    · Color: White
    · Odor: Odorless
    · Odour threshold: Not determined.

  · pH-value: Not applicable.

  · Change in condition
    · Melting point/Melting range: undetermined
Trade name: SDS (sodium dodecylsulfate)

Boiling point/Boiling range: undetermined
· Flash point: Not applicable
· Flammability (solid, gaseous): Product is not flammable.
· Ignition temperature:
  · Decomposition temperature: Not determined.
· Auto igniting: Not determined.
· Danger of explosion: Product does not present an explosion hazard.
· Explosion limits:
  · Lower: Not determined.
  · Upper: Not determined.
· Vapor pressure: Not applicable.
· Density at 20 °C: 0.67 g/cm³
· Relative density: Not determined.
· Vapour density: Not applicable.
· Evaporation rate: Not applicable.
· Solubility in / Miscibility with Water at 20 °C: 100 g/l Fully miscible
· Partition coefficient (n-octanol/water): Not determined.
· Viscosity:
  · dynamic: Not applicable.
  · kinematic: Not applicable.
· Organic solvents: 0.0 %
· Solids content: 100.0 %
· Other information No further relevant information available.

10 Stability and reactivity
· Reactivity
· Chemical stability
  · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  · Possibility of hazardous reactions No dangerous reactions known
  · Conditions to avoid No further relevant information available.
  · Incompatible materials: No further relevant information available.
  · Hazardous decomposition products: No dangerous decomposition products known
11 Toxicological information

· Information on toxicological effects
  · Acute toxicity:
    · LD/LC50 values for hazardous components per OSHA criteria:
      151-21-3 sodium dodecyl sulphate
      | Route  | LD50   |
      |        |        |
      | Oral   | 1288 mg/kg (rat) |
      | Dermal | 580 mg/kg (rab)  |
  · Primary irritant effect:
    · on the skin: Irritant to skin and mucous membranes.
    · on the eye: Irritant effect.
    · Sensitization: No sensitizing effects known.
  · Additional toxicological information:
    · Carcinogenic categories
      · IARC (International Agency for Research on Cancer)
        Substance is not listed.
      · NTP (National Toxicology Program)
        Substance is not listed.
      · OSHA-Ca (Occupational Safety & Health Administration)
        Substance is not listed.

12 Ecological information

· Toxicity
  · Aquatic toxicity: No further relevant information available.
  · Persistence and degradability: No further relevant information available.
  · Behavior in environmental systems:
    · Bioaccumulative potential: No further relevant information available.
    · Mobility in soil: No further relevant information available.
  · Additional ecological information:
  · General notes:
    Water hazard class 2 (Assessment by list): hazardous for water.
    Do not allow product to reach ground water, water course or sewage system.
    Danger to drinking water if even small quantities leak into the ground.
  · Results of PBT and vPvB assessment
    · PBT: Not applicable.
    · vPvB: Not applicable.
  · Other adverse effects: No further relevant information available.

13 Disposal considerations

· Waste treatment methods
  · Recommendation
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
### 14 Transport information

- **UN-Number**
  - DOT, ADR, IMDG, IATA: UN2811
- **UN proper shipping name**
  - DOT, IMDG, IATA: TOXIC SOLID, ORGANIC, N.O.S. (sodium dodecyl sulphate)
  - ADR: 2811 TOXIC SOLID, ORGANIC, N.O.S. (sodium dodecyl sulphate)
- **Transport hazard class(es)**
  - DOT, ADR, IMDG, IATA: Class 6.1 Toxic substances
  - Label: 6.1
- **Packing group**
  - DOT, ADR, IMDG, IATA: III
- **Environmental hazards:**
  - Marine pollutant: No
- **Special precautions for user**
  - Warning: Toxic substances
  - Danger code (Kemler): 60
  - EMS Number: F-A, S-A
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.
- **UN "Model Regulation":**
  - UN2811, TOXIC SOLID, ORGANIC, N.O.S. (sodium dodecyl sulphate), 6.1, III

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA (Superfund Amendents and Reauthorization Act of 1986 - USA)**
  - **Section 302/304 (40CFR355.30 / 40CFR355.40):**
    - Substance not listed.
  - **Section 313 (40CFR372.65):**
    - Substance is not listed.
- **TSCA (Toxic Substances Control Act):**
  - Substance is listed.
Carcinogenic categories

- EPA (Environmental Protection Agency)
  Substance is not listed.

- TLV (Threshold Limit Value established by ACGIH)
  Substance is not listed.

- MAK (German Maximum Workplace Concentration)
  Substance is not listed.

- NIOSH-Ca (National Institute for Occupational Safety and Health)
  Substance is not listed.

National regulations

- Water hazard class: Water hazard class 2 (Assessment by list): hazardous for water.

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Environmental Health and Safety.

- Contact:
  Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000
  Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

- Date of preparation / last revision: 06/26/2015 / -

- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  ACGIH: American Conference of Governmental Industrial Hygienists
  EINECS: European Inventory of Existing Commercial Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  Acute Tox. 4: Acute toxicity, Hazard Category 4
  Acute Tox. 3: Acute toxicity, Hazard Category 3
  Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
  Data compared to the previous version altered.