

**Safety Data Sheet**  
 acc. to OSHA HCS

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Printing date 09/19/2018

Reviewed on 08/30/2017

**1 Identification**
**Product identifier**
**Trade name:** Trans-Blot® Turbo™ Nitrocellulose

**Catalog or product number:** 10026936, 10026937

**CAS Number:**

9004-70-0

**Index number:**

603-037-01-3

**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:** 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.  
 510-741-1000

**2 Hazard(s) identification**
**Classification of the substance or mixture**

Flam. Sol. 1 H228 Flammable solid.

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

**Hazard pictograms**


GHS02

**Signal word** Danger

**Hazard statements**

H228 Flammable solid.

**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:**

9004-70-0 nitrocellulose

**Identification number(s):**
**Index number:** 603-037-01-3

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**Additional information:** For the wording of the listed risk phrases refer to section 15.

**4 First-aid measures**
**Description of first aid measures**
**General information** No special measures required.

**After Inhalation** Supply fresh air; consult doctor in case of complaints.

**After skin contact** Generally the product does not irritate the skin.

**After eye contact** Rinse opened eye for several minutes under running water.

**After swallowing** Rinse mouth with water. Seek medical attention and appropriate follow-up.

**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** Use fire fighting measures that suit the environment.

**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 equipment (See section 8). Keep unprotected persons away.

Wear protective clothing.

**Environmental precautions:** No special measures required.

**Methods and material for containment and cleaning up:** Ensure adequate ventilation.

**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.

**Protective Action Criteria for Chemicals**
**PAC-1:**

Substance is not listed.

**PAC-2:**

Substance is not listed.

**PAC-3:**

Substance is not listed.

**7 Handling and storage**
**Handling**
**Precautions for safe handling** No special measures required.

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- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- 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: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

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## 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: Whitish
  - Odor: Odorless
  - Odor threshold: Not determined.
- pH-value: Not applicable.
- Change in condition
  - Melting point/Melting range: undetermined
  - Boiling point/Boiling range: undetermined
- Flash point: Not applicable
- Flammability (solid, gaseous) Product is not flammable.
- Decomposition temperature: Not determined.
- Auto igniting: Not determined.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: Not determined.

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- Upper: Not determined.
- Vapor pressure: Not applicable.
- Density at 20 °C: 1.65 g/cm³
- Relative density: Not determined.
- Vapor density: Not applicable.
- Evaporation rate: Not applicable.
- Solubility in / Miscibility with Water: Fully miscible
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - dynamic: Not applicable.
  - kinematic: Not applicable.
- Solids content: 100.0 %
- Other information: No further relevant information available.

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## 10 Stability and reactivity

- Reactivity: No further relevant information available.
- 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:
  - Primary irritant effect:
    - on the skin: No irritant effect.
    - on the eye: No 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.

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**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:** Generally not hazardous for water.
- **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:** Dispose of waste in accordance to applicable national, regional, or local regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN3270
- **UN proper shipping name**
- **DOT, IMDG, IATA** NITROCELLULOSE MEMBRANE FILTER (less than 12.6% nitrogen by dry mass)
- **ADR** 3270 NITROCELLULOSE MEMBRANE FILTER
- **Transport hazard class(es)**
- **DOT, ADR, IMDG, IATA**
- **Class** 4.1 Flammable solids, self-reactive substances and solid desensitized explosives
- **Label** 4.1
- **Packing group**
- **DOT, ADR, IMDG, IATA** II
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Flammable solids, self-reactive substances and solid desensitized explosives
- **Danger code (Kemler):** 46
- **EMS Number:** F-A,S-I

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- **Stowage Category** D
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:**
- **DOT**
- **Quantity limitations** Void  
Void
- **ADR**
- **Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 g  
Maximum net quantity per outer packaging: 500 g
- **IMDG**
- **Limited quantities (LQ)** 1 kg
- **Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 g  
Maximum net quantity per outer packaging: 500 g
- **UN "Model Regulation":** UN 3270 NITROCELLULOSE MEMBRANE FILTERS, 4.1, II

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA (Superfund Amendments 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.

- **TSCA new (21st Century Act)**

ACTIVE/EXEMPT

- **California Proposition 65:**

Substance is not listed.

- **Chemicals known to cause cancer:**

Substance is not listed.

- **Developmental Toxicity**

Substance is not listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

Substance is not listed.

- **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

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**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:** Generally not hazardous.

**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

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**Abbreviations and acronyms:**

AOR: 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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Sol. 1: Flammable solids - Category 1

**\* Data compared to the previous version altered.**

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