

Safety Data Sheet acc. to OSHA HCS

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/cm ³
- 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.

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	UN3270
• DOT, ADR, IMDG, IATA	
• UN proper shipping name	NITROCELLULOSE MEMBRANE FILTER (less than 12.6% nitrogen by dry mass)
• DOT, IMDG, IATA	3270 NITROCELLULOSE MEMBRANE FILTER
• ADR	
• Transport hazard class(es)	
• DOT, ADR, IMDG, IATA	4.1 Flammable solids, self-reactive substances and solid desensitised explosives
• Class	4.1
• Label	
• Packing group	II
• DOT, ADR, IMDG, IATA	
• Environmental hazards:	
• Marine pollutant:	No
• Special precautions for user	Warning: Flammable solids, self-reactive substances and solid desensitised 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

1 kg

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

- Date of preparation / last revision 09/19/2018 / -

- 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

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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