

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: The Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Revision date 28-Jan-2022

Revision Number 2

1. IDENTIFICATION			
Product identifier Product Name	Trans-Blot Transfer Medium 0.2, 0.45 micron		
Other means of identification Catalogue Number(s)	1620082, 1620112, 1620113, 1620114, 1620115, 1620116, 1620117, 1620145, 1620146, 1620147, 1620148, 1620150, 1620167, 1620168, 1620251, 1620252, 1703202, 1620112EDU, 1620113EDU, 1620114EDU, 1620115EDU, 1620116EDU, 1620117EDU, 1620145EDU, 1620146EDU, 1620147EDU, 1620148EDU, 1620150EDU, 1620167EDU, 1620168EDU, 1703202EDU		
UN/ID no	UN3270		
Registration Number(s)	No information available		
Recommended use of the chemical Recommended use	and restrictions on use Laboratory chemicals		
Supplier's details Corporate Headquarters Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547 USA	<u>Manufacturer</u> Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547 USA	Legal Entity / Contact Address Bio-Rad Laboratories Pvt. Ltd. Bio-Rad House 86-87, Udyog Vihar Phase IV Gurgaon 122005 Haryana India Bio-Rad Laboratories (Pty) Ltd. 34 Bolton Road Parkwood, Johannesburg 2193 South Africa	
Technical Service	India: 91-124-4029300 or 1-800-180-1224 South Africa: 27-11-442-85-08 India: support.india@bio-rad.com South Africa: cdg_techsupport_eemea@bio-ra		
Emergency telephone number			
24 Hour Emergency Phone Number	CHEMTREC India: 000-800-100-7141 CHEMTREC South Africa: 0-800-983-611		
2. HAZARDS IDENTIFICATION			

Classification of the substance or mixture

Flammable solids

Category 1

GHS Label elements, including precautionary statements



Signal word

Danger

Flammable solid

Precautionary Statements - Prevention

Ground and bond container and receiving equipment

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Use explosion-proof electrical/ventilating / lighting/ .? / equipment

Wear protective gloves/protective clothing/eye protection/face protection

Fire

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Other hazards which do not result in classification

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No	Weight-%
Nitrocellulose	9004-70-0	100
9004-70-0		

4. FIRST AID MEASURES

Description of necessary first aid measures

Inhalation	Remove to fresh air.	
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.	
Ingestion	Rinse mouth thoroughly with water.	
For emergency responders		
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8).	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of immediate medical attention and special treatment needed, if necessary		
Note to physicians	Treat symptomatically.	
5. FIREFIGHTING MEASURES		

Suitable Extinguishing Media	
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the c	hemical
Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective actions for fire-fi	ighters
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions, protective ed	quipment and emergency procedures
Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.
Environmental precautions	
Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods and material for containm	ent and cleaning up
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Keep out of drains, sewers, ditches and waterways.
Methods for cleaning up	Take precautionary measures against static discharges. Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
Other information	Ventilate the area.
	7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.	
8. EXP	OSURE CONTROLS/PERSONAL PROTECTION	
Control parameters_		
Exposure guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies	
Appropriate engineering controls	_	
Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, su	ch as personal protective equipment	
Eye/face protection	Tight sealing safety goggles.	
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.	
Hand protection	Wear suitable gloves. Impervious gloves.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Colour	Solid Nitrocellulose membrane filters white	Odour Odour threshold	Odourless No information available
Property pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Upper/lower flammability or explosive limits Lower flammability or explosive	15	Remarks • Method No information available No information available No information available No information available No information available	
limits Vapour pressure Vapour density Relative density Solubility(ies) Water solubility Solubility in other solvents	Insoluble in water	No information available No information available No information available No information available	

Partition coefficient Autoignition temperature Decomposition temperature Viscosity		No information available No information available No information available
Kinematic viscosity Dynamic viscosity		No information available
Other information		
Oxidising properties	Not applicable	
	10. STABILITY AND REA	CTIVITY
Reactivity		
Reactivity	No information available.	
Chemical stability		
Stability	Stable under normal conditions.	
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None Yes.	
Possibility of hazardous reactions		
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid		
Conditions to avoid	Heat, flames and sparks.	
Incompatible materials		
Incompatible materials	None known based on information sup	plied.
Hazardous decomposition products	<u>i</u>	
Hazardous decomposition products	None known based on information sup	plied.
	11. TOXICOLOGICAL INFO	RMATION
Information on the likely routes of e	<u>xposure</u>	

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.
Symptoms	No information available.
Acute toxicity	

Numerical measures of toxicity

Product Information

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)5,005.00 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Nitrocellulose	> 5 g/kg (Rat)	-	-

Delayed and immediate effects and also chronic effects from short and long term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.

Chemical name		IARC
Nitrocellulose		Group 2A
Reproductive toxicity	No information available.	
STOT - single exposure	No information available.	
STOT - repeated exposure	No information available.	
Aspiration hazard	No information available.	

12. ECOLOGICAL INFORMATION

Toxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Ecotoxicity The environmental impact of this product has not been fully investigated.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility

Mobility in soil	No information available.
Mobility	No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers.

14. TRANSPORT INFORMATION

IMDG

UN number or ID number UN proper shipping name Description Transport hazard class(es) Packing group Marine pollutant Special Provisions EmS-No Transport in bulk according to Annex II of MARPOL and the IBC Code	UN3270 Nitrocellulose membrane filters UN3270, NITROCELLULOSE MEMBRANE FILTERS, 4.1, II 4.1 II NP 237, 286 F-A, S-I No information available C
IATA UN number or ID number UN proper shipping name Description Transport hazard class(es) Packing group Special Provisions ERG Code	UN3270 Nitrocellulose membrane filters UN3270, Nitrocellulose membrane filters, 4.1, II 4.1 II A57, A73, A122 3L
RID UN number UN proper shipping name Description Transport hazard class(es) Labels Packing group Classification code Special Provisions	UN3270 Nitrocellulose membrane filters UN3270, NITROCELLULOSE MEMBRANE FILTERS, 4.1, II 4.1 4.1 II F1 237, 286
ADR UN number or ID number UN proper shipping name Description Transport hazard class(es) Labels Packing group Classification code Special Provisions	3270 Nitrocellulose membrane filters 3270, NITROCELLULOSE MEMBRANE FILTERS, 4.1, II 4.1 4.1 II F1 237, 286
ADN UN number UN proper shipping name Description	UN3270 Nitrocellulose membrane filters UN3270, NITROCELLULOSE MEMBRANE FILTERS, 4.1, II

4.1
4.1
II
F1
237, 286
1 kg
PP

Special precautions for user

Special provisions from the regulations relative to the specified mode of transport are noted by numeric code. Refer to the regulations for the full text of special provisions.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

Contact supplier for inventory compliance status

16. OTHER INFORMATION

Prepared By	Bio-Rad Laboratories, Environmental Health and Safety		
Revision date	28-Jan-2022		
Revision Note	*** Indicates this information has changed since the previous revision.		
Key or legend to abbreviations and acronyms used in the safety data sheet			

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION						
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)			
Ceiling	Maximum limit value	*	Skin designation			
С	Carcinogen					

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet