GE Healthcare

Safety Data Sheet

Australia

Section 1. Identification

Product name	Cellulose nitr 100 pack	ate circles, plain, 3 µm 25 mm,
Catalogue Number	7193-002	9 0 7 1 9 3 0 0 2
Chemical product name	Cellulose nitrate	
Synonyms	collodions and celloidin; collo	ate; Celloidin; pyroxylin; cellulose nitrate, non-plasticised, other than odion cotton; fulmicotton; gum cotton; nitrocellulose; nitrocellulose, non- ions and celloidin; COLLODION; PYROXYLIN SOLUTION; Cellulose
Product type	Solid.	
Relevant identified uses of the su	ubstance or mixture and use	s advised against
Identified uses Vise in laboratories Scientific research and developm Analytical chemistry.	ent	
Company details		
Manufacturer GE Healthcare Bio-Sciences AB Bjorkgatan 30 SE-75184 Uppsala Sweden +46 18 61 20000		Supplier Global Life Sciences Solutions Australia Pty Ltd Level 11, 32 Phillip Street Parramatta Sydney 2150 New South Wales Australia tfn: 18 0015 0522
Emergency telephone number	000 and +61 2 9846 4000	
Section 2. Hazard(s) ider	ntification	
Classification of the substance or mixture	FLAMMABLE SOLIDS - Cate	egory 2
GHS label elements		
Hazard pictograms	^	
Signal word	WARNING	
Hazard statements	Flammable solid.	
Precautionary statements		
Prevention	Wear protective gloves. We open flames and other ignitic	ar eye or face protection. Keep away from heat, hot surfaces, sparks, on sources. No smoking.
Response	Not applicable.	
Storage	Not applicable.	
Disposal	Not applicable.	



Article Number 28420759 Page: 1/8 Validation date 2 September 2019 Cellulose nitrate circles, plain, 3 μm 25 mm, 100 pack

Supplemental label elements	Not applicable.		
Other hazards which do not result in classification	None known.		
Section 3. Composition	and ingredient information		
Substance/mixture	Substance		
Chemical identity	Cellulose nitrate		
Other means of identification	Ritrocellulose; Cellulose, nitrate; Celloidin; pyroxyli collodions and celloidin; collodion cotton; fulmicott plasticised, other than collodions and celloidin; CC tetranitrate	on; gum cotton; nitrocellu	llose; nitrocellulose, non-
CAS number/other identifiers			
CAS number	9004-70-0		
EC number	Not available.		
Ingredient name		% (w/w)	CAS number
Cellulose nitrate		100	9004-70-0

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid r	measures
Description of necessary f	irst aid measures
Eye contact	In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.
Inhalation	No special recommendations.
Skin contact	Wash with soap and water. Get medical attention if irritation develops.
Ingestion	No special recommendations.
Most important symptoms	/effects, acute and delayed

Potential acute health effect	<u>s</u>
Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/sympto	<u>oms</u>
Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)



Article Number 28420759 7193-002

Extinguishing media	
Suitable extinguishing media	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	Do not use water jet.
Specific hazards arising from the chemical	Flammable solid.
Hazardous thermal decomposition products	Decomposition products may include the following materials: nitrogen oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and material for contain	ment and cleaning up
Small spill	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 18 to 25°C (64.4 to 77°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.



Article Number 28420759

•	ntrols and personal protection
Control parameters	
Occupational exposure limits None.	
Appropriate engineering controls	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state	Solid.
Colour	White.
Odour	Odourless.
Flash point	Closed cup: 4.44°C (40°F)
Flammability (solid, gas)	Product becomes a 'Flammable Solid category 2' after removing the membrane from the package. If the product is still in it's original packaging it is not a 'Flammable Solid category 2'.
Vapour pressure	0 kPa (0 mm Hg) [room temperature]
Relative density	1.66
Partition coefficient: n-octanol/ water	Not available.
Auto-ignition temperature	>160°C (>320°F)
Decomposition temperature	Not available.
Viscosity	Dynamic (room temperature): Not applicable. Kinematic (room temperature): Not applicable.
Flow time (ISO 2431)	Not available.
Aerosol product	
Flame duration	Not applicable.





Page: 4/8 Validation date 2 September 2019 Version 6

Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame).
Incompatible materials	Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
Cellulose nitrate	LD50 Oral	Rat	>5 g/kg	-
Conclusion/Summary	Not toxic.			
Irritation/Corrosion				
Not available.				
Sensitisation				
Not available.				
<u>Mutagenicity</u>				
Not available.				
Carcinogenicity				
Not available.				
Reproductive toxicity				
Not available.				
Teratogenicity				
Not available.				
Specific target organ toxicity (s	single exposure)			
Not available.				
Specific target organ toxicity (r	epeated exposure)			
Not available.	• • • •			
Aspiration hazard				
Not available.				
nformation on likely routes of exposure	Routes of entry not anticipate	ed: Oral, Dermal, Inhalatio	n.	
otential acute health effects				
Eye contact	No known significant effects	or critical hazards.		
Inhalation	No known significant effects	or critical hazards.		
Skin contact	No known significant effects	or critical hazards.		
Ingestion	No known significant effects	or critical hazards.		
Symptoms related to the physica	al, chemical and toxicologica	I characteristics		
F	No specific data.			
Eye contact	No specific data.			
Eye contact Inhalation				
-	No specific data.			



Article Number 28420759 Cellulose nitrate circles, plain, 3 μm 25 mm, 100 pack

<u>Short term exposure</u>	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Long term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Potential chronic health effects	i i i i i i i i i i i i i i i i i i i
Not available.	
Conclusion/Summary	Not toxic.
Conclusion/Summary General	Not toxic. No known significant effects or critical hazards.
•	
General	No known significant effects or critical hazards.
General Carcinogenicity	No known significant effects or critical hazards. No known significant effects or critical hazards.
General Carcinogenicity Mutagenicity	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

<u>Acute toxicity estimates</u> N/A

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
Cellulose nitrate	Acute EC50 579000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
Conclusion/Summary	No known significant effects or critical haz	ards.	

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Not available.
ос)	
Other adverse effects	No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.





7193-002

Cellulose nitrate circle	es, plain, 3 μm 25 mm, 100 pac	:k		7193-002
Section 14. Tra	insport information			
	ADG	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
Proper shipping name	-	-	-	-
Class	-	-	-	-
Label				
PG	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	Remarks The product is not regulated as Dangerous Goods for transport according to a expert opinion by BAM (Bundesanstalt für Materialforschung and -prüfung) with number 2.2-91/15-E on 12 May 2015. "The above named nitrocellulose membrane filters (in form of round filters, pre-cut parts and curved parts) do not fulfill the criteria of Class 1 'Explosives' and the division 4.1 'Flammable Solids' of RID/ADR (GGVSE), IMDG-Code (GGVSee) and the ICAO-Technical Instructions."	Remarks The product is not regulated as Dangerous Goods for transport according to a expert opinion by BAM (Bundesanstalt für Materialforschung and - prüfung) with number 2.2-91/15-E on 12 May 2015. "The above named nitrocellulose membrane filters (in form of round filters, pre-cut parts and curved parts) do not fulfill the criteria of Class 1 'Explosives' and the division 4.1 'Flammable Solids' of RID/ADR (GGVSE), IMDG-Code (GGVSee) and the ICAO- Technical Instructions."	Remarks The product is not regulated as Dangerous Goods for transport according to a expert opinion by BAM (Bundesanstalt für Materialforschung and -prüfung) with number 2.2-91/15-E on 12 May 2015. "The above named nitrocellulose membrane filters (in form of round filters, pre-cut parts and curved parts) do not fulfill the criteria of Class 1 'Explosives' and the division 4.1 'Flammable Solids' of RID/ADR (GGVSE), IMDG-Code (GGVSee) and the ICAO-Technical Instructions."	transport according to a expert opinion by BAM (Bundesanstalt für Materialforschung and -prüfung) with number 2.2-91/15-E on 12 May 2015. "The above named nitrocellulose membrane filters (in form of round filters, pre-cut parts and curved parts) do not fulfill the criteria of Class 1 'Explosives' and the division 4.1 'Flammable Solids' of RIDADR (GGVSE), IMDG-Code
Special precautions Transport in bulk ac	secure. Ensure spillage.		transport in closed containe e product know what to do in	
Annex II of Marpol a Code	-			
Section 15. Reg	gulatory information			
Standard Uniform Se	chedule of Medicine and Pois	sons		
Not regulated.				
	and Safety Regulations - Scho	eduled Substances		
Ingredient name			<u>Schedule</u> Restricted hazarc abrasive blasting	lous chemical [For wet
International regulat	tions		usraerve slaeting	1
Chemical Weapon Not listed.	Convention List Schedules I,	II & III Chemicals		
Montreal Protocol	<u>(Annexes A, B, C, E)</u>			
Not listed. Stockholm Conver	ntion on Persistent Organic P	ollutants		
Not listed.		<u>enaturite</u>		
Rotterdam Conven	ntion on Prior Informed Conse	ent (PIC)		
UNECE Aarhus Pro	otocol on POPs and Heavy M	etals		
Not listed.				
		Article Number		Page: 7/8
		28420759	Valida	tion date 2 September 2019

Cellulose nitrate circles, plain, 3 µm 25 mm, 100 pack 7193-002 Australia This material is listed or exempted. Europe Not determined. **United States** This material is listed or exempted. Canada inventory This material is listed or exempted. China This material is listed or exempted. Japan inventory (ENCS): This material is listed or exempted. Japan Japan inventory (ISHL): This material is listed or exempted. Malaysia Not determined New Zealand This material is listed or exempted.

Section 16. Any other relevant information

н	istory	
	131019	

Date of printing	04 November 2019	Date of previous issue	12 April 2018		
Date of issue	02 September 2019	Version	6		
	msdslifesciences@ge.c	msdslifesciences@ge.com			
	ADR = The European Åg ATE = Acute Toxicity Est BCF = Bioconcentration I GHS = Globally Harmoni IATA = International Air T IBC = Intermediate Bulk (IMDG = International Mar LogPow = logarithm of th MARPOL = International the Protocol of 1978. ("M N/A = Not available	ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)			
Procedure used to deri	ve the classification				
	Classification		Justification		

Classification

FLAMMABLE SOLIDS - Category 2

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

On basis of test data



