Material Safety Data Sheet

Australia

English

1.

Identification of the material and supplier



NC45 Membrane, Cellulose nitrate, 0.45 µm 25 mm, 100 pack

Catalogue Number

10401106



Company details		
Computity declars Manufacturer GE Healthcare UK Ltd Amersham Place Little Chalfont Buckinghamshire HP7 9NA England +44 0870 606 1921 Emergency telephone number	Supplier GE Healthcare Bio-Sciences Building 4B, Parklands Estate 21 South Street Rydalmere NSW 2116 Australia +61 2 8820 8299 000 and +61 2 9846 4000	
Chemical product name Synonyms ADG Molecular formula	Kitrocellulose ♥ ♥ ₩NO3.xUnspecified	
<u>Uses</u>		
Area of application Material uses Product type	Industrial applications. Analytical chemistry. Research. Solid.	
2. Hazards identifica	tion	
Classification	F ; R11	
Risk phrases	🕅 11- Highly flammable.	
Safety phrases	5 16- Keep away from sources of ignition - No smoking. S33- Take precautionary measures against static discharges. S37/39- Wear suitable gloves and eye/face protection.	
Statement of hazardous/dangero	us nature	

KON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. Composition/information on ingredients

Mixture	No.
Chemical name	Nitrocellulose
Synonyms	
CAS number	9004-70-0
Chemical formula	MNO3.xUnspecified

Additional information

🕏 ther ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

There are no 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.



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4. First-aid measures

First-aid measures	
Eye contact	In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.
Skin contact	Wash with soap and water. Get medical attention if irritation develops.
Inhalation	No special recommendations.
Ingestion	No special recommendations.
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.

5. Fire-fighting measures

<u>Extinguishing media</u>	
Suitable	🕏se dry chemical, CO2, water spray (fog) or foam.
Not suitable	🗗 not use water jet.
Special exposure hazards	Fromptly 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. Fighly flammable solid. Runoff to sewer may create fire or explosion hazard.
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.
Hazardous combustion products	Secomposition products may include the following materials: nitrogen oxides
Special remarks on fire hazards	Froduct 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'.

6. Accidental release measures

Personal precautions	$\overline{\mathbf{f}}$ liminate all ignition sources. Vacuum or sweep up material and place in a designated, labelled waste container.
Environmental precautions	No special recommendations.
Methods for cleaning up	Eiminate all ignition sources. Vacuum or sweep up material and place in a designated, labelled waste container.
Small spill	${f f E}$ liminate all ignition sources. Vacuum or sweep up material and place in a designated, labelled waste container.

7. Handling and storage

Handling	Fut on appropriate personal protective equipment (see Section 8). 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. 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 explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	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.

8. Exposure controls/personal protection

Occupational exposure limits	No exposure standard allocated.
Recommended monitoring procedures	No special recommendations.
Engineering measures	Vese 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.
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.
Personal protection	
Eyes	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 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.

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Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all 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 protective properties. It should be noted that the time to breakthrough for any glove material may different for different glove manufacturers. In the case of mixtures, consisting of several substance protection time of the gloves cannot be accurately estimated. A respirator is not needed under normal and intended conditions of product use.	g their be
Skin	Fersonal protective equipment for the body should be selected based on the task being performed the risks involved and should be approved by a specialist before handling this product. When there risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection static discharges, clothing should include anti-static overalls, boots and gloves.	e is a

Environmental exposure controls 🛛 🕅 o specific hazard.

9. Physical and chemical properties

Physical state	Solid.
Colour	White.
Odour	Odourless.
Vapour pressure	🕏 kPa (0 mm Hg) [room temperature]
Density	₹.66 g/cm³
Flash point	Closed cup: 12.85°C (55.1°F)
Viscosity	Bynamic (room temperature): Not applicable. Kinematic (room temperature): Not applicable.
Auto-ignition temperature	>160°C (>320°F)
Flame duration	Not applicable.

Stability and reactivity 10.

Chemical stability

Toxicological information 11.

Potential acute health effects			
Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.		
Ingestion	No known significant effects or critical hazards.		
Skin contact	No known significant effects or critical hazards.		
Eye contact	No known significant effects or critical hazards.		
<u>Acute toxicity</u>			
Nitrocellulose	LD50 Oral	Rat	>5 g/kg -
Conclusion/Summary	Not toxic.		
Potential chronic health effects			
Chronic toxicity			
Conclusion/Summary	Not toxic.		
Irritation/Corrosion			
Conclusion/Summary	Not available.		
Sensitiser			
Conclusion/Summary	Not available.		
<u>Carcinogenicity</u>			
Conclusion/Summary	Not available.		
<u>Mutagenicity</u>			
Conclusion/Summary	Not available.		
Teratogenicity			
Conclusion/Summary	Not available.		
Reproductive toxicity			
Conclusion/Summary	Not available.		
Chronic effects	No known significant effects or critical he	azards.	
Carcinogenicity	No known significant effects or critical ho	azards.	
Mutagenicity	No known significant effects or critical ho		
Teratogenicity	No known significant effects or critical ho		
Developmental effects	No known significant effects or critical ho		
Fertility effects	No known significant effects or critical he	azards.	
Over-exposure signs/symptoms			





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Inhalation	No specific data.
Ingestion	No specific data.
Skin	No specific data.
Eyes	No specific data.
Target organs	May cause damage to the following organs: central nervous system (CNS).

12. Ecological information				
Ecotoxicity	No known significant effects or critical hazards.			
Aquatic ecotoxicity				
Nitrocellulose	Acute EC50 579000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours	
Conclusion/Summary <u>Persistence/degradability</u>	No known significant effects or critical hazards.			
Conclusion/Summary	Not available.			
Other adverse effects	No known significant effects or critical hazards.			

13. Disposal considerations

Methods of disposal

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.

14. Transport information Regulation UN Proper shipping name Label Additional information Class PG number Not Remarks ADG The product is not regulated as Dangerous regulated. 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." ADR Not Remarks regulated. 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** IMDG Not The product is not regulated as Dangerous regulated. Me product is negoticed to generate opinion by BAM (Bundesanstalt fżr Materialforschung and -prżfung) 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



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'Flammable Solids' of RID/ADR (GGVSE) IMDG-Code (GGVSee) and the ICAO-Technical Instructions " Not regulated.

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Remarks The product is not regulated as Dangerous Goods for transport according to a expert opinion by BAM (Bundesanstoll 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."

PG* : Packing group

15. Regulatory infor	mation				
Standard Uniform Schedule of	Medicine and Poisons				
Not regulated.					
Control of Scheduled Carcinoge	enic Substances		Cabadala		
<u>Ingredient name</u> Not available.			<u>Schedule</u>		
Australia inventory (AICS) EU Classification HCS Classification	This material is listed or F; R11 Flammable solid Target organ effects	exempted.			
16. Other information	on				
<u>History</u>					
Date of printing	12 January 2016	Date of previous issue	29 July 2009		
Date of issue	12 January 2016	Version	3		
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subsidiaries, assumes any lial	pility whatsoever for the accur	acy or completeness of the informati	e above-named supplier, nor any of its on contained herein. s may present unknown hazards and should		

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.



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