

Material Safety Data Sheet

United States
English

Section 1. Chemical product and company identification

Product name NC45 STL Membrane, Cellulose nitrate, 0.45 µm 47 mm, 400 pack

Catalogue Number 10407211



Material uses Industrial applications: Analytical chemistry. Research.
Product type Solid.
Validation date 4 May 2012
Print date 04 May 2012

Supplier GE Healthcare UK Ltd
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 Little Chalfont
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 England
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In case of emergency

| | | |
|--------|---------------|----------------|
| US | ChemTrec (US) | 1-800-424-9300 |
| Canada | ChemTrec (US) | 1-703-527-3887 |

2. Hazards identification

Physical state Solid.
Odor Odorless.
OSHA/HCS status While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Emergency overview NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Potential acute health effects

Eyes No known significant effects or critical hazards.
Skin No known significant effects or critical hazards.
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.

Potential chronic health effects

Chronic effects No known significant effects or critical hazards.
Carcinogenicity No known significant effects or critical hazards.
Mutagenicity No known significant effects or critical hazards.
Teratogenicity No known significant effects or critical hazards.
Developmental effects No known significant effects or critical hazards.
Fertility effects No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation No specific data.
Ingestion No specific data.
Skin No specific data.
Eyes No specific data.

Medical conditions aggravated by over-exposure None known.

See toxicological information (Section 11)



3. Composition/information on ingredients

| <u>Name</u> | <u>CAS number</u> | <u>% by weight</u> |
|---------------------------------|-------------------|--------------------|
| Cellulose nitrate Plastic scrap | 9004-70-0 | 100 |

Section 4. First aid measures

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| 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 | If inhaled, remove to fresh air. Get medical attention if symptoms appear. |
| Ingestion | Do not ingest. Get medical attention if symptoms appear. |
| Protection of first-aiders | <input checked="" type="checkbox"/> No action shall be taken involving any personal risk or without suitable training. |
| Notes to physician | <input checked="" type="checkbox"/> 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. |

Section 5. Fire-fighting measures

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| Flammability of the product | <input checked="" type="checkbox"/> No specific fire or explosion hazard. |
| Extinguishing media | |
| Suitable | <input checked="" type="checkbox"/> Use an extinguishing agent suitable for the surrounding fire. |
| Not suitable | <input checked="" type="checkbox"/> None known. |
| Special exposure hazards | <input checked="" type="checkbox"/> 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. |
| Hazardous combustion products | <input checked="" type="checkbox"/> Decomposition products may include the following materials: nitrogen oxides |
| 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

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| Personal precautions | Eliminate all ignition sources. Use personal protective equipment as required. |
| Environmental precautions | No special recommendations. |
| Methods for cleaning up | Pick up solids and put in an appropriate sealable container for later disposal. |
| Small spill | Pick up solids and put in an appropriate sealable container for later disposal. |

Section 7. Handling and storage

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| Handling | Keep away from sources of ignition. |
| Storage | Avoid all possible sources of ignition (spark or flame). |

Section 8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

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| Recommended monitoring procedures | Product does not contain relevant quantities of materials with exposure values that have to be monitored. |
| Engineering measures | No special ventilation requirements. |
| 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

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| Respiratory | A respirator is not needed under normal and intended conditions of product use. |
| Hands | 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. |
| 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. |
| Skin | 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. |
| 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. |



Section 9. Physical and chemical properties

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| Physical state | Solid. |
| Auto-ignition temperature | >160°C (>320°F) |
| Color | White. |
| Odor | Odorless. |
| Vapor pressure | 0 kPa (0 mm Hg) [20°C] |
| Volatility | 0% (w/w) |
| VOC | 0% (w/w) [ISO 11890-1] |
| Solubility | Not available. |

Section 10. Stability and reactivity

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| Stability | The product is stable. |
| Conditions to avoid | No specific data. |
| Materials to avoid | No specific data. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur. Not considered to be a product presenting a risk of explosion. |

Section 11. Toxicological information

Sensitizer

| | |
|---------------------------|----------------|
| Conclusion/Summary | Not available. |
|---------------------------|----------------|

Section 12. Ecological information

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|-----------------------------------|---|
| Environmental effects | No known significant effects or critical hazards. |
| <u>Aquatic ecotoxicity</u> | |
| Conclusion/Summary | No known significant effects or critical hazards. |
| <u>Biodegradability</u> | |
| Conclusion/Summary | Not available. |
| Other adverse effects | No known significant effects or critical hazards. |

Section 13. Disposal considerations

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| Waste disposal | The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. |
|-----------------------|--|

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

International transport regulations

Not classified.



Section 15. Regulatory information

HCS Classification Not regulated.

U.S. Federal regulations **TSCA 8(a) IUR Exempt/Partial exemption:** All components are listed or exempted.
 United States inventory (TSCA 8b): All components are listed or exempted.
 SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
 SARA 302/304/311/312 hazardous chemicals: Cellulose nitrate Plastic scrap
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Cellulose nitrate Plastic scrap: Fire hazard

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) Not listed

Clean Air Act Section 602 Class I Substances Not listed

Clean Air Act Section 602 Class II Substances Not listed

DEA List I Chemicals (Precursor Chemicals) Not listed

DEA List II Chemicals (Essential Chemicals) Not listed

State regulations

Massachusetts The following components are listed: COLLODION

New York None of the components are listed.

New Jersey The following components are listed: NITROCELLULOSE; CELLULOSE, NITRATE

Pennsylvania The following components are listed: CELLULOSE, NITRATE

California Prop. 65

United States inventory (TSCA 8b) All components are listed or exempted.

International regulations

International lists **Australia inventory (AICS):** All components are listed or exempted.
 China inventory (IECSC): All components are listed or exempted.
 Japan inventory: All components are listed or exempted.
 Korea inventory: All components are listed or exempted.
 New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
 Philippines inventory (PICCS): All components are listed or exempted.

Chemical Weapons Convention List Schedule I Chemicals Not listed

Chemical Weapons Convention List Schedule II Chemicals Not listed

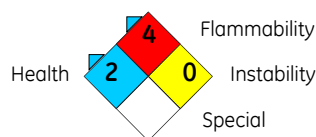
Chemical Weapons Convention List Schedule III Chemicals Not listed

Section 16. Other information

Label requirements NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Indicates information that has changed from previously issued version.

History

| | | | |
|-------------------------|-------------|-------------------------------|--------------|
| Date of printing | 04 May 2012 | Date of previous issue | 29 July 2009 |
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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.



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