

Section 1: Identification

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| Common Name/Trade Name | LACTOSE ANHYDROUS NF | |
| Supplier Information | Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693 | IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours) |
| Product Synonym(s) | N/A | |
| Relevant Use(s) of Product | Manufacture or Compounding of Substances | |

Section 2: Hazards Identification

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| Classification of Substance or Mixture | Combustible Dusts | |
| Signal Word | Warning | |
| Hazard Statement(s) | N/A | |
| Pictogram(s) | N/A | |
| Precautionary Statement(s) | P210 P233 | Keep away from heat/sparks/open flames/hot surfaces – No smoking. Keep container tightly closed. |
| Hazards Not Otherwise Classified | Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. | |
| Ingredient(s) with Unknown Toxicity | No data available | |

Section 3: Composition/Information on Ingredients

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| Chemical Name | Lactose |
| Common Name | Lactose Anhydrous |
| CAS Number | 63-42-3 |
| Impurities and/or Stabilizing Additives | No data available |

Section 4: First Aid Measures

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| General Advice | Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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. |
| If Inhaled | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| In Case of Skin Contact | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| In Case of Eye Contact | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. |
| If Swallowed | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Most Important Symptoms and Effects | Potential acute health effects: Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Ingestion : No known significant effects or critical hazards. Ingestion : No specific data. Skin contact : No known significant effects or critical hazards. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. Eye contact : Over-exposure signs/symptoms Skin contact Inhalation Adverse symptoms may include the following: respiratory tract irritation coughing No specific data. : : Eye contact : Adverse symptoms may include the following: irritation redness |

Section 5: Fire Fighting Measures

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| Suitable Extinguishing Media | Suitable extinguishing media: Use dry chemical powder. Unsuitable extinguishing media: Do not use water jet. |
| Special Hazards Arising From the Substance/Mixture | Fine dust clouds may form explosive mixtures with air. Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| Special PPE and/or Precautions for Firefighters | 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. 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, 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. 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 nonemergency personnel". |
| Methods and Materials Used for Containment | Avoid dispersal of spilled 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). |
| Cleanup Procedures | 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, labeled waste container. Large spill: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Dispose of via a licensed waste disposal contractor. |

Section 7: Handling and Storage

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| Precautions for Safe Handling | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. 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 | 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. |

Section 8: Exposure Controls/Personal Protection

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| Components with Workplace Control Parameters | None. |
| Appropriate Engineering Controls | Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor 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, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. 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. 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. |
| PPE - 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 sideshields. If operating conditions cause high dust concentrations to be produced, use dust goggles. |
| PPE - Skin 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. 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. |
| PPE - 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. |
| PPE - Respiratory Protection | Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. |

Section 9: Physical and Chemical Properties

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| Appearance | Solid. [Powder.] Color: White. |
| Upper/Lower Flammability or Explosive Limits | No data available |
| Odor | No data available |
| Vapor Pressure | No data available |
| Odor Threshold | No data available |
| Vapor Density | No data available |
| pH | No data available |
| Relative Density | 1.0000 |
| Melting Point/Freezing Point | No data available |
| Solubility | Soluble in the following materials: cold water. |
| Initial Boiling Point and Boiling Range | No data available |
| Flash Point | Closed cup: >93.33C (>200F) |
| Evaporation Rate | No data available |
| Flammability (Solid, Gas) | No data available |
| Partition Coefficient | No data available |
| Auto-Ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Viscosity | No data available |

Section 10: Stability and Reactivity

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| 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 the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation. |
| 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

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| Acute Toxicity - LD50 Oral | LD50 Oral - rat - > 10 g/kg |
| Acute Toxicity - Inhalation | No data available |
| Acute Toxicity - Dermal | No data available |
| Acute Toxicity - Eye | No data available |
| Skin Corrosion/Irritation | No data available |
| Serious Eye Damage/Irritation | No data available |
| Respiratory or Skin Sensitization | No data available |
| Germ Cell Mutagenicity | No data available |
| Carcinogenicity IARC | No known significant effects or critical hazards. |
| Carcinogenicity ACGIH | No known significant effects or critical hazards. |
| Carcinogenicity NTP | No known significant effects or critical hazards. |
| Carcinogenicity OSHA | No known significant effects or critical hazards. |
| Reproductive Toxicity | No known significant effects or critical hazards. |
| Specific Target Organ Toxicity - Single Exposure | No data available |
| Specific Target Organ Toxicity - Repeated Exposure | No data available |
| Aspiration Hazard | No data available |

Section 12: Ecological Information

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| Toxicity | No data available |
| Persistence and Degradability | No data available |
| Bio-accumulative Potential | No data available |
| Mobility in Soil | No data available |
| Other Adverse Effects | No known significant effects or critical hazards. |

Section 13: Disposal Considerations

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| Waste Treatment Methods Product | The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers. |
| Waste Treatment Methods Packaging | The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers. |
| Special Precautions Landfill or Incinerations | No data available |
| Other Information | No data available |

Section 14: Transport Information

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| UN Number | Not dangerous goods |
| UN Proper Shipping Name | N/A |
| Transport Hazard Class(es) | N/A |
| Packaging Group | N/A |
| Environmental Hazards | N/A |

Section 15: Regulatory Information

U.S. Federal regulations Massachusetts This material is not listed. : : 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 New York : This material is not listed. New Jersey : This material is not listed. Pennsylvania : This material is not listed. State regulations TSCA 8(a) CDR Exempt/Partial exemption: Not determined This material is listed or exempted.SARA 302/304 SARA 304 RQ : Not applicable. No products were found. Composition/information on ingredients SARA 311/312 Classification : Fire hazardMassachusetts This material is not listed. : : 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 New York : This material is not listed. New Jersey : This material is not listed. Pennsylvania : This material is not listed. State regulations TSCA 8(a) CDR Exempt/Partial exemption: Not determined This material is listed or exempted. SARA 302/304 SARA 304 RQ : Not applicable. No products were found. Composition/information on ingredients SARA 311/312 Classification : Fire hazard lactose 100 Yes. No. No. No. No. Name % Fire hazard Sudden release of pressure Reactive Immediate (acute) health hazard Delayed (chronic) health hazardInternational regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Montreal Protocol (Annexes A, B, C, E) Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Rotterdam Convention on Prior Inform Consent (PIC) Not listed. Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. International lists National inventory Australia : This material is listed or exempted. Canada : This material is listed or exempted.China : This material is listed or exempted. Europe : This material is listed or exempted. Japan : This material is listed or exempted. Republic of Korea : This material is listed or exempted. Malaysia : Not determined. New Zealand : This material is listed or exempted. Philippines : This material is listed or exempted. Taiwan : This material is listed or exempted

Section 16: Other Information

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| Additional Information | Hazardous Material Information System (USA): Health * 1, Flammability: 1, Physical hazards: 0. NFPA : Health 1, Flammability 1, Instability/Reactivity: 0. |
| Prepared By | Scarlotte Smith |
| Revision Date | 01/11/2019 13:18 |

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