# SAFETY DATA SHEET

## 1. Identification

<table>
<thead>
<tr>
<th><strong>Product identifier</strong></th>
<th>Nitric Oxide (2.86%) Blended With Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS #</strong></td>
<td>Mixture</td>
</tr>
<tr>
<td><strong>Other means of identification</strong></td>
<td></td>
</tr>
<tr>
<td><strong>SDS number</strong></td>
<td>NO286</td>
</tr>
<tr>
<td><strong>Recommended use</strong></td>
<td>This gas mixture is used in the production of a finished pharmaceutical product.</td>
</tr>
<tr>
<td><strong>Recommended restrictions</strong></td>
<td>None known.</td>
</tr>
</tbody>
</table>

### Manufacturer/Importer/Supplier/Distributor information

<table>
<thead>
<tr>
<th><strong>Manufacturer</strong></th>
<th>INO Therapeutics LLC d/b/a Mallinckrodt Pharmaceuticals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Supplier</strong></td>
<td>INO Therapeutics LLC d/b/a Mallinckrodt Pharmaceuticals</td>
</tr>
<tr>
<td><strong>Company name</strong></td>
<td>INO Therapeutics LLC d/b/a Mallinckrodt Pharmaceuticals</td>
</tr>
<tr>
<td><strong>Address</strong></td>
<td>Perryville III Corporate Park</td>
</tr>
<tr>
<td></td>
<td>53 Frontage Road, 3rd Floor, P.O. Box 9001</td>
</tr>
<tr>
<td></td>
<td>Hampton, New Jersey 08827-9001, USA</td>
</tr>
<tr>
<td><strong>Telephone number</strong></td>
<td>1-877-566-9466</td>
</tr>
<tr>
<td><strong>Emergency telephone number</strong></td>
<td>1-800-424-9300 (CHEMTREC)</td>
</tr>
</tbody>
</table>

## 2. Hazard(s) identification

### Physical hazards

- Gases under pressure

### Health hazards

- Acute toxicity, inhalation
- Skin corrosion/irritation
- Serious eye damage/eye irritation
- Specific target organ toxicity, repeated exposure

### Environmental hazards

- Not classified.

### OSHA defined hazards

- Simple asphyxiant

### Labeling

- **Contains**
  - NITRIC OXIDE, NITROGEN

### Label elements

- ![Safety Data Sheet Icon](image)

### Signal word

- Warning

### Hazard statement

- Contains gas under pressure; may explode if heated. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause damage to organs (blood) through prolonged or repeated exposure. May displace oxygen and cause rapid suffocation.

### Precautionary statement

#### Prevention

- Keep container tightly closed. Do not breathe gas. Use only outdoors or in a well-ventilated area. Wear respiratory protection. Wear protective gloves/eye protection/face protection. Wash thoroughly after handling.
Response
If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse.

Storage
Protect from sunlight. Store in a well-ventilated place.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)
Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn"). Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Those with pre-existing heart, lung, or blood disorders may be more susceptible to the symptoms of asphyxia. Nitric oxide converts to nitrogen dioxide when exposed to air.

Supplemental information
None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>NITROGEN</td>
<td>Nitrogen; Nitrogen NF; LIN; Cryogenic Liquid Nitrogen</td>
<td>7727-37-9</td>
<td>97.14</td>
</tr>
<tr>
<td>NITRIC OXIDE</td>
<td>10102-43-9</td>
<td>2.86</td>
<td></td>
</tr>
</tbody>
</table>

Composition comments
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Get medical attention if symptoms persist.

Skin contact
Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion
Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed
Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn"). Skin irritation. May cause redness and pain. Dermatitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.

Symptoms of overexposure can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting, and are reversible if exposure is stopped.

Continued exposure can lead to hypoxia (inadequate oxygen), cyanosis (bluish discoloration of the skin), numbness of the extremities, unconsciousness and death.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Frostbite: Do not remove clothes, but flush with copious amounts of lukewarm water. Call an ambulance and continue to flush during transportation to hospital. Do not rub affected area.

General information
If you feel unwell, seek medical advice (show the label where possible). In case of cold burns (frostbite) caused by rapidly expanding gas or vaporizing liquids, get medical attention promptly. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures

Flammable properties
The product is not flammable.

Suitable extinguishing media
Use any media suitable for the surrounding fires.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
Contents under pressure. Fire or excessive heat may result in rupture of container due to release of significant amounts of gases. Ruptured cylinders may rocket.

Special protective equipment and precautions for firefighters
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions
In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods
Cool containers exposed to flames with water until well after the fire is out.

General fire hazards
Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
In the event of a leak evacuate all personnel until ventilation can restore oxygen concentrations to safe levels. Keep away from sources of ignition - No smoking. Keep out of low areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Emergency personnel need self-contained breathing equipment. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
Stop leak if you can do it without risk. Eliminate sources of ignition. Isolate area until gas has dispersed. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions
Avoid release to the environment.

7. Handling and storage

Precautions for safe handling
DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Always wear NIOSH approved, positive pressure air supplied respirator when handling this material. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Store in original tightly closed container. Protect against physical damage and/or friction. Store in a cool, dry place. Store in a well-ventilated place. Protect from sunlight. Storage temperature: between 59 °F (15 °C) and 86 °F (30 °C). Refrigeration recommended. Keep reduction valves free from grease and oil. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
</table>

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

NITRIC OXIDE (CAS 10102-43-9) PEL 30 mg/m3

25 ppm
US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>NITRIC OXIDE (CAS 10102-43-9)</td>
<td>TWA</td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>NITRIC OXIDE (CAS 10102-43-9)</td>
<td>TWA</td>
<td>30 mg/m3</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Use explosion-proof equipment. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear safety glasses with side shields (or goggles). Chemical goggles are recommended.

Skin protection
Hand protection
Wear protective gloves. Thermally protective, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

Other
Wear suitable protective clothing.

Respiratory protection
If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

**Appearance**

- **Physical state**: Gas.
- **Form**: Compressed gas.
- **Color**: Colorless - Nitric oxide can produce brownish nitrogen dioxide after reaction with oxygen.
- **Odor**: Odorless in product concentration, may form NO2 with pungent odor in presence of air.

**Odor threshold**: 0.5 - 5 ppm for NO2

**pH**: Not available.

**Melting point/freezing point**: -263 °F (-163.89 °C) @ 1 atm (NO only)

**Initial boiling point and boiling range**: -241 °F (-151.67 °C) @ 1 atm (NO only)

**Flash point**: Not flammable.

**Evaporation rate**: Not available.

**Flammability (solid, gas)**: Not flammable.

**Upper/lower flammability or explosive limits**

- **Flammability limit - lower (%)**: Not flammable.
- **Flammability limit - upper (%)**: Not flammable.
- **Explosive limit - lower (%)**: Not available.
- **Explosive limit - upper (%)**: Not available.
### Vapor pressure
34.2 atm

### Vapor density
Not available.

### Relative density
Relative gas density = 1.04 @ NTP (20 °C, 1atm)
Relative vapor density (Air = 1) = 1.4 kg/m³

### Solubility(ies)
- **Solubility (water)**
  (NO) in water, ml/100 ml at 0 °C: 7.4.
- **Partition coefficient (n-octanol/water)**
  Not available.
- **Auto-ignition temperature**
  Not available.
- **Decomposition temperature**
  Not available.

### Viscosity
Water: 0.06 g/L

### Other information
- **Explosive properties**
  Contains gas under pressure; may explode if heated.
- **Specific gravity**
  1.27 at boiling point nitric oxide

### 10. Stability and reactivity
- **Reactivity**
  The product is stable and non-reactive under normal conditions of use, storage, and transport.
- **Chemical stability**
  Nitric oxide converts to nitrogen dioxide when exposed to air.
- **Possibility of hazardous reactions**
  Hazardous polymerization does not occur.
- **Conditions to avoid**
  Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
- **Incompatible materials**
- **Hazardous decomposition products**
  Nitrogen oxides (NOx).

### 11. Toxicological information
- **Information on likely routes of exposure**
  - **Ingestion**
    Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn"). However, ingestion is not likely to be a primary route of occupational exposure.
  - **Inhalation**
    Harmful if inhaled. Suffocation (asphyxiants) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels.
  - **Skin contact**
    Causes skin irritation. May cause frostbite or freezing of skin.
  - **Eye contact**
    Causes serious eye irritation. Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn"). Permanent eye damage including blindness could result.

- **Symptoms related to the physical, chemical and toxicological characteristics**
  Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn"). Skin irritation. May cause redness and pain. Dermatitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

  Symptoms of overexposure can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting, and are reversible if exposure is stopped.

  Continued exposure can lead to hypoxia (inadequate oxygen), cyanosis (bluish discoloration of the skin), numbness of the extremities, unconsciousness and death.

- **Information on toxicological effects**
  - **Acute toxicity**
    Harmful if inhaled.
  - **Chronic effects**
    Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.
Nitric Oxide (2.86%) Blended With Nitrogen (CAS Mixture)

**Acute Inhalation**

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat</td>
<td>4545.46 ppm, 4 hours estimated</td>
</tr>
</tbody>
</table>

**Components**

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat</td>
<td>130 ppm, 4 hours</td>
</tr>
<tr>
<td></td>
<td>115 mg/l, 1 Hours</td>
</tr>
<tr>
<td></td>
<td>57.5 mg/l, 4 Hours</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitization**

Respiratory sensitization: Due to lack of data the classification is not possible.

Skin sensitization: Due to lack of data the classification is not possible.

**Germ cell mutagenicity**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity**

Due to lack of data the classification is not possible.

**Specific target organ toxicity - single exposure**

May cause damage to organs (blood) through prolonged or repeated exposure.

**Specific target organ toxicity - repeated exposure**

Due to lack of data the classification is not possible.

**Aspiration hazard**

Due to lack of data the classification is not possible.

**12. Ecological information**

**Ecotoxicity**

This product has no known eco-toxicological effects. The nitric oxide component of this gas mixture will react with air to form nitrogen dioxide, which in contact with water or moist air will form nitrous and nitric acid.

**Persistence and degradability**

No data is available on the degradability of this product.

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**

| NITROGEN | 0.67 |

**Mobility in soil**

No data available.

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**13. Disposal considerations**

**Disposal instructions**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations**

Dispose in accordance with all applicable regulations.

**Hazardous waste code**

Waste codes should be assigned by the user based on the application for which the product was used. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products**

Dispose of in accordance with local regulations.
Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty gas cylinders should be returned to the vendor for recycling or refilling.

14. Transport information

DOT

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN1956</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Compressed gas, n.o.s. (28,600 ppm Nitric Oxide, Nitrogen)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>2.2</td>
</tr>
<tr>
<td>Class Subsidiary risk</td>
<td>-</td>
</tr>
<tr>
<td>Label(s)</td>
<td>2.2</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
</tr>
</tbody>
</table>

IATA

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN1956</td>
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</tr>
<tr>
<td>Class Subsidiary risk</td>
<td>-</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No.</td>
</tr>
<tr>
<td>ERG Code</td>
<td>2L</td>
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<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
</tr>
<tr>
<td>Other information</td>
<td></td>
</tr>
<tr>
<td>Passenger and cargo aircraft</td>
<td>Allowed.</td>
</tr>
<tr>
<td>Cargo aircraft only</td>
<td>Allowed.</td>
</tr>
</tbody>
</table>

IMDG

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN1956</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>COMPRESSED GAS, N.O.S. (28,600 PPM NITRIC OXIDE, NITROGEN)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>2.2</td>
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<tr>
<td>Class Subsidiary risk</td>
<td>-</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No.</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>No.</td>
</tr>
<tr>
<td>EmS</td>
<td>F-C, S-V</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling. Not applicable.</td>
</tr>
<tr>
<td>Transport in bulk according to</td>
<td>Annex II of MARPOL 73/78 and the IBC Code</td>
</tr>
</tbody>
</table>

Material name: Nitric Oxide (2.86%) Blended With Nitrogen
MSDS ID: NO286   Version #: 01   Revision date: 03-29-2016
15. Regulatory information

**US federal regulations**
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

- **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**
  Not regulated.

- **CERCLA Hazardous Substance List (40 CFR 302.4)**
  NITRIC OXIDE (CAS 10102-43-9) Listed.

- **SARA 304 Emergency release notification**
  NITRIC OXIDE (CAS 10102-43-9) 10 lbs

  Not listed.

- **CERCLA (Superfund) reportable quantity**
  NITRIC OXIDE: 10.0000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

- **Hazard categories**
  Immediate Hazard - Yes
  Delayed Hazard - Yes
  Fire Hazard - No
  Pressure Hazard - Yes
  Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Reportable quantity</th>
<th>Threshold planning quantity, lower value</th>
<th>Threshold planning quantity, upper value</th>
</tr>
</thead>
<tbody>
<tr>
<td>NITRIC OXIDE</td>
<td>10102-43-9</td>
<td>10</td>
<td>100 lbs</td>
<td></td>
</tr>
<tr>
<td>SARA 311/312 Hazardous chemical</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other federal regulations**

- **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**
  Not regulated.

- **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**
  NITRIC OXIDE (CAS 10102-43-9)

- **Safe Drinking Water Act (SDWA)**
  Not regulated.

**US state regulations**

- **US. Massachusetts RTK - Substance List**
  NITRIC OXIDE (CAS 10102-43-9)
  NITROGEN (CAS 7727-37-9)

- **US. New Jersey Worker and Community Right-to-Know Act**
  NITRIC OXIDE (CAS 10102-43-9)
  NITROGEN (CAS 7727-37-9)
**US. Pennsylvania Worker and Community Right-to-Know Law**

NITRIC OXIDE (CAS 10102-43-9)
NITROGEN (CAS 7727-37-9)

**US. Rhode Island RTK**

NITRIC OXIDE (CAS 10102-43-9)

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

| Issue date | 03-29-2016  |
| Version #  | 01          |

**NFPA Ratings**

2 0 2
SA

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Mallinckrodt provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION RefERS. ACCORDINGLY, MALLINCKRODT WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.