1. Identification

Product Name: Lithium diisopropylamide, 2M solution in THF/n-heptane/ethylbenzene

Cat No.: AC268830000, AC268831000, AC268838000; AC268830000; AC268831000; AC268838000

Synonyms: LDA.THF complex

Recommended Use: Laboratory chemicals.

Uses advised against: Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11
Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99

CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

2. Hazard(s) Identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Category 2
Acute oral toxicity Category 4
Skin Corrosion/Irritation Category 1 B
Serious Eye Damage/Eye Irritation Category 1
Carcinogenicity Category 2
Specific target organ toxicity (single exposure) Category 3
Target Organs - Respiratory system, Central nervous system (CNS).
Specific target organ toxicity - (repeated exposure) Category 2
Target Organs - Kidney, Liver, spleen, Blood.
Aspiration Toxicity Category 1

Label Elements

Signal Word
Danger
Hazard Statements
Highly flammable liquid and vapor
Harmful if swallowed
May be fatal if swallowed and enters airways
Causes severe skin burns and eye damage
May cause respiratory irritation
May cause drowsiness or dizziness
Suspected of causing cancer
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Response
Immediately call a POISON CENTER or doctor/physician
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Ingestion
Do NOT induce vomiting
Rinse mouth
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Toxic to aquatic life with long lasting effects
Reacts violently with water
May form explosive peroxides
3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>64742-49-0</td>
<td>25-50</td>
</tr>
<tr>
<td>2-Propanamine, N-(1-methylethyl)-, lithium salt</td>
<td>4111-54-0</td>
<td>25-50</td>
</tr>
<tr>
<td>Tetrahydrofuran</td>
<td>109-99-9</td>
<td>20-25</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>10-25</td>
</tr>
<tr>
<td>Diisopropylamine</td>
<td>108-18-9</td>
<td>3-5</td>
</tr>
</tbody>
</table>

4. First-aid measures

General Advice
Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact
Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.

Inhalation
If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately. Risk of serious damage to the lungs (by aspiration).

Ingestion
Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately. Call a physician or poison control center immediately. If vomiting occurs naturally, have victim lean forward.

Most important symptoms and effects
Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Causes central nervous system depression

Notes to Physician
Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media
CO₂, dry chemical, dry sand, alcohol-resistant foam. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media
DO NOT USE WATER

Flash Point
2 °C / 35.6 °F

Method
No information available

Autoignition Temperature
No information available

Explosion Limits
Upper
No data available
Lower
No data available
Lithium diisopropylamide, 2M solution in THF/n-heptane/ethylbenzene

Revision Date 19-Jan-2018

Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Reacts violently with water. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx). Thermal decomposition can lead to release of irritating gases and vapors.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

<table>
<thead>
<tr>
<th></th>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>W</td>
</tr>
</tbody>
</table>

6. Accidental release measures

Personal Precautions
Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions
Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up
Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Do not expose spill to water. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling
Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Do not allow contact with water. If peroxide formation is suspected, do not open or move container. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage
Keep away from heat, sparks and flame. Flammables area. Keep away from water or moist air. Store under an inert atmosphere. Shelf life 12 months. May form explosive peroxides on prolonged storage. Containers should be dated when opened and tested periodically for the presence of peroxides. Should crystals form in a peroxidizable liquid, peroxidation may have occurred and the product should be considered extremely dangerous. In this instance, the container should only be opened remotely by professionals. Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

8. Exposure controls / personal protection

Exposure Guidelines
9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
<th>Mexico OEL (TWA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofuran</td>
<td>TWA: 50 ppm</td>
<td>(Vacated) TWA: 200 ppm</td>
<td>IDLH: 2000 ppm</td>
<td>TWA: 200 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL: 100 ppm</td>
<td>(Vacated) TWA: 590 mg/m³</td>
<td>TWA: 200 ppm</td>
<td>TWA: 590 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Skin</td>
<td>(Vacated) STEL: 250 ppm</td>
<td>TWA: 250 ppm</td>
<td>STEL: 250 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Vacated) STEL: 735 mg/m³</td>
<td>TWA: 735 mg/m³</td>
<td>STEL: 735 mg/m³</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>TWA: 20 ppm</td>
<td>(Vacated) TWA: 100 ppm</td>
<td>IDLH: 800 ppm</td>
<td>TWA: 100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Vacated) TWA: 435 mg/m³</td>
<td>TWA: 100 ppm</td>
<td>TWA: 435 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Vacated) STEL: 125 ppm</td>
<td>TWA: 125 ppm</td>
<td>STEL: 125 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Vacated) STEL: 545 mg/m³</td>
<td>TWA: 545 mg/m³</td>
<td>STEL: 545 mg/m³</td>
</tr>
<tr>
<td>Diisopropylamine</td>
<td>TWA: 5 ppm</td>
<td>(Vacated) TWA: 5 ppm</td>
<td>IDLH: 200 ppm</td>
<td>TWA: 5 ppm</td>
</tr>
<tr>
<td></td>
<td>Skin</td>
<td>(Vacated) TWA: 20 mg/m³</td>
<td>TWA: 20 mg/m³</td>
<td>TWA: 20 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin</td>
<td>TWA: 5 ppm</td>
<td>STEL: 20 mg/m³</td>
</tr>
</tbody>
</table>

**Legend**

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH - NIOSH - National Institute for Occupational Safety and Health

**Engineering Measures**

Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

**Eye/face Protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tight sealing safety goggles. Face protection shield.

**Skin and body protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.
Lithium diisopropylamide, 2M solution in THF/n-heptane/ethylbenzene

Revision Date 19-Jan-2018

Vapor Density
Specific Gravity 0.81
Solubility Decomposes in contact with water
Partition coefficient; n-octanol/water No data available
Autoignition Temperature No information available
Decomposition Temperature No information available
Viscosity No information available

10. Stability and reactivity

Reactive Hazard Yes
Stability Stable under normal conditions. Air sensitive. Moisture sensitive.
Conditions to Avoid Exposure to moist air or water. Exposure to moisture. Keep away from open flames, hot surfaces and sources of ignition. Exposure to air.
Incompatible Materials Strong oxidizing agents
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NOₓ), Thermal decomposition can lead to release of irritating gases and vapors
Hazardous Polymerization Hazardous polymerization does not occur.
Hazardous Reactions None under normal processing. Reacts violently with water.

11. Toxicological information

Acute Toxicity

Product Information

Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Category 4. ATE = 300 - 2000 mg/kg.
Dermal LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Vapor LC50 Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>LD50 &gt; 5000 mg/kg ( Rat )</td>
<td>LD50 &gt; 3160 mg/kg ( Rabbit )</td>
<td>LC50 = 73680 ppm ( Rat ) 4 h</td>
</tr>
<tr>
<td>Tetrahydrofuran</td>
<td>1650 mg/kg ( Rat )</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>180 mg/L ( Rat ) 1 h 53.9 mg/L ( Rat ) 4 h</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>3500 mg/kg ( Rat )</td>
<td>15400 mg/kg ( Rabbit )</td>
<td>17.2 mg/L ( Rat ) 4 h</td>
</tr>
<tr>
<td>Diisopropylamine</td>
<td>LD50 = 770 mg/kg ( Rat )</td>
<td>LD50 = 2000 mg/kg ( Rabbit )</td>
<td>LC50 = 4800 mg/m³ ( Rat ) 2 h</td>
</tr>
</tbody>
</table>

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Causes burns by all exposure routes
Sensitization No information available
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. Limited evidence of a carcinogenic effect.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>IARC</th>
<th>NTP</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>64742-49-0</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>2-Propanamine, N-(1-methylethyl)-</td>
<td>4111-54-0</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>
Lithium diisopropylamide, 2M solution in THF/n-heptane/ethylbenzene

<table>
<thead>
<tr>
<th>Component</th>
<th>EU - Endocrine Disrupters</th>
<th>EU - Endocrine Disruptors - Evaluated Substances</th>
<th>Japan - Endocrine Disruptor Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofuran</td>
<td>Group III Chemical</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Other Adverse Effects

The toxicological properties have not been fully investigated.

**12. Ecological information**

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Reacts with water so no ecotoxicity data for the substance is available.

<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Algae</th>
<th>Freshwater Fish</th>
<th>Microtox</th>
<th>Water Flea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>Not listed</td>
<td>LC50 = 8.41 mg/L, 96h semi-static, closed (Onchorhynchus mykiss)</td>
<td>Not listed</td>
<td>LC50 = 2.6 mg/L, 96h (Chaetogammarus marinus)</td>
</tr>
<tr>
<td>Tetrahydrofuran</td>
<td>Not listed</td>
<td>2160 mg/l LC50 = 96 h Pimephales promelas Leuciscus idus: LC50: 2820 mg/L/48h</td>
<td>Not listed</td>
<td>EC50 48 h 3485 mg/l EC50: &gt;10000 mg/L/24h</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>438 mg/L EC50 &gt; 96 h 4.6 mg/L EC50 = 72 h 2.6 - 11.3 mg/L EC50 = 72 h 1.7 - 7.6 mg/L EC50 = 96 h</td>
<td>9.6 mg/L LC50 96 h 9.1 - 15.6 mg/L LC50 96 h 32 mg/L LC50 96 h 7.5 - 11 mg/L LC50 96 h 4.2 mg/L LC50 96 h 11.0 - 18.0 mg/L LC50 96 h</td>
<td>EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h</td>
<td>1.8 - 2.4 mg/L EC50 48 h</td>
</tr>
<tr>
<td>Disopropylamine</td>
<td>EC50 = 20 mg/L/96h</td>
<td>Brachydanio rerio: 150 - 223 mg/L LC50 96 h</td>
<td>Not listed</td>
<td>EC50 = 53 mg/L/24h Daphnia magna: EC50 = 25.8 mg/L/24h</td>
</tr>
</tbody>
</table>
Lithium diisopropylamide, 2M solution in THF/n-heptane/ethylbenzene

<table>
<thead>
<tr>
<th>Component</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofuran</td>
<td>0.45</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>3.118</td>
</tr>
<tr>
<td>Diisopropylamine</td>
<td>1.4</td>
</tr>
</tbody>
</table>

**Persistence and Degradability**  Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation**  No information available.

**Mobility**  Will likely be mobile in the environment due to its volatility.

### 13. Disposal considerations

**Waste Disposal Methods**  Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

<table>
<thead>
<tr>
<th>Component</th>
<th>RCRA - U Series Wastes</th>
<th>RCRA - P Series Wastes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofuran - 109-99-9</td>
<td>U213</td>
<td>-</td>
</tr>
</tbody>
</table>

### 14. Transport information

**DOT**

- **UN-No**  UN2924
- **Proper Shipping Name**  Alcohols, n.o.s., (Ethanol, Methanol)
- **Technical Name**  Naphtha (petroleum), hydrotreated light, 2-Propanamine, N-(1-methylethyl)-, lithium salt
- **Hazard Class**  3
- **Subsidiary Hazard Class**  8
- **Packing Group**  II

**TDG**

- **UN-No**  UN2924
- **Proper Shipping Name**  Flammable liquid, corrosive, n.o.s.
- **Hazard Class**  3
- **Subsidiary Hazard Class**  8
- **Packing Group**  II

**IATA**

- **UN-No**  UN2924
- **Proper Shipping Name**  Flammable liquid, corrosive, n.o.s.
- **Hazard Class**  3
- **Subsidiary Hazard Class**  8
- **Packing Group**  II

**IMDG/IMO**

- **UN-No**  UN2924
- **Proper Shipping Name**  Flammable liquid, corrosive, n.o.s.
- **Hazard Class**  3
- **Subsidiary Hazard Class**  8
- **Packing Group**  II

### 15. Regulatory information

**United States of America Inventory**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>TSCA</th>
<th>TSCA Inventory notification - Active/Inactive</th>
<th>TSCA - EPA Regulatory Flags</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>64742-49-0</td>
<td>X</td>
<td>ACTIVE</td>
<td>-</td>
</tr>
</tbody>
</table>
Lithium diisopropylamide, 2M solution in THF/n-heptane/ethylbenzene

Component | CAS-No | TSCA 12(b) - Notices of Export
--- | --- | ---
Tetrahydrofuran | 109-99-9 | Section 4, 1 % de minimus concentration

**Legend:**
- **TSCA** - Toxic Substances Control Act, (40 CFR Part 710)
- **X** - Listed
- **-'** - Not Listed
- **PMN** - Indicates a commenced PMN substance

**International Inventories**
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>PICCS</th>
<th>ENCS</th>
<th>AICS</th>
<th>IECSC</th>
<th>KECL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>64742-49-0</td>
<td>X</td>
<td>-</td>
<td>265-151-9</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>KE-25623</td>
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<tr>
<td>2-Propanamine, N-((1-methylethyl)-, lithium salt</td>
<td>4111-54-0</td>
<td>X</td>
<td>-</td>
<td>223-893-0</td>
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<td>-</td>
<td>X</td>
<td>X</td>
<td>-</td>
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<tr>
<td>Tetrahydrofuran</td>
<td>109-99-9</td>
<td>X</td>
<td>-</td>
<td>203-726-8</td>
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<td>X</td>
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<tr>
<td>Diisopropylamine</td>
<td>108-18-9</td>
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<td>-</td>
<td>203-558-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>KE-24105</td>
</tr>
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</table>

**U.S. Federal Regulations**

**SARA 313**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
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</thead>
<tbody>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>10-25</td>
<td>0.1</td>
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**SARA 311/312 Hazard Categories**
See section 2 for more information

**CWA (Clean Water Act)**

<table>
<thead>
<tr>
<th>Component</th>
<th>CWA - Hazardous Substances</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylbenzene</td>
<td>X</td>
<td>1000 lb</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Clean Air Act**

<table>
<thead>
<tr>
<th>Component</th>
<th>HAPS Data</th>
<th>Class 1 Ozone Depletors</th>
<th>Class 2 Ozone Depletors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylbenzene</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**OSHA - Occupational Safety and Health Administration**
Not applicable

**CERCLA**
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<table>
<thead>
<tr>
<th>Component</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA EHS RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofuran</td>
<td>1000 lb</td>
<td>-</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>1000 lb</td>
<td>-</td>
</tr>
</tbody>
</table>

**California Proposition 65**
This product contains the following Proposition 65 chemicals.
Lithium diisopropylamide, 2M solution in THF/n-heptane/ethylbenzene

<table>
<thead>
<tr>
<th>Component</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Ammonium</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Iodine</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sodium</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Sodium Peroxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Thermo Fisher</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Component</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylbenzene</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Tetrahydrofuran</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Diisopropylamine</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant: N
DOT Severe Marine Pollutant: N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade: Serious risk, Grade 3

16. Other information

Prepared By: Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date: 01-Apr-2009
Revision Date: 19-Jan-2018
Print Date: 19-Jan-2018

Revision Summary:
This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS