SAFETY DATA SHEET

B00625 MST LIMOSOL 12/18oz CS

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : B00625 MST LIMOSOL 12/18oz CS
Material number : 000000000001002913

Manufacturer or supplier's details
Company : Zep Inc.
Address : 1310 Seaboard Industrial Blvd., NW
          Atlanta, GA 30318
Telephone : 404-352-1680

Emergency telephone numbers
For SDS Information : Compliance Services 1-877-428-9937
For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded
For a Transportation Emergency : CHEMTREC: 800-424-9300 - All Calls Recorded.
                                In the District of Columbia 202-483-7616

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

<table>
<thead>
<tr>
<th>Appearance</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>clear, orange</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

GHS Classification

| Flammable liquids | Category 3 |
| Skin irritation   | Category 2 |
| Eye irritation    | Category 2A |
| Skin sensitisation | Category 1 |
| Aspiration hazard | Category 1 |

GHS Label element

Hazard pictograms : ![Pictograms]

Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
                  H304 May be fatal if swallowed and enters airways.
                  H315 Causes skin irritation.
                  H317 May cause an allergic skin reaction.
                  H319 Causes serious eye irritation.

Precautionary statements : Prevention:
                           P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/container in accordance with local regulation.

Potential Health Effects

Carcinogenicity:

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citrus, ext.</td>
<td>94266-47-4</td>
<td>&gt;= 50 - &lt; 70</td>
</tr>
<tr>
<td>4-Nonylphenol branched, ethoxylated</td>
<td>127087-87-0</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>1-propanoxypropan-2-ol</td>
<td>1569-01-3</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>Orange, sweet, ext.</td>
<td>8028-48-6</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

General advice: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

If inhaled: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

In case of skin contact: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Call a physician if irritation develops or persists.

In case of eye contact: Remove contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist. Keep eye wide open while rinsing.

If swallowed: DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products: Carbon dioxide (CO2)
Carbon monoxide
Smoke

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling: Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Always replace cap after use. Do not breathe vapours or spray mist.

Conditions for safe storage: No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and
kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with
the technological safety standards.

Materials to avoid : Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Personal protective equipment
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection : impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : clear, orange
Odour : characteristic
Odour Threshold : no data available
pH : 9.3 - 9.8
Melting point/freezing point : no data available
Boiling point : 171 °C
Flash point : 46 °C
Evaporation rate : < 1
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Version 1.0  Revision Date 02/26/2015  Print Date 06/09/2015

Upper explosion limit : 6.1 % (V)
Lower explosion limit : 0.7 % (V)
Vapour pressure : no data available
Density : 0.895 g/cm³
Solubility(ies)
Water solubility : emulsifiable
Solubility in other solvents : not determined
Partition coefficient: n-octanol/water : no data available
Auto-ignition temperature : not determined
Thermal decomposition : no data available
Viscosity
Viscosity, kinematic : no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions
Conditions to avoid : Heat, flames and sparks.
                      Extremes of temperature and direct sunlight.
Heat, flames and sparks.
Incompatible materials : Oxidizing agents
                        Aluminium
Hazardous decomposition products : Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:
Acute oral toxicity : Acute toxicity estimate : 4,255 mg/kg
                      Method: Calculation method

Skin corrosion/irritation
SAFETY DATA SHEET

B00625 MST LIMOSOL 12/18oz CS

Version 1.0

Revision Date 02/26/2015

Print Date 06/09/2015

**Product:**
Remarks: Irritating to skin.

**Serious eye damage/eye irritation**

**Product:**
Remarks: Eye irritation

**Respiratory or skin sensitisation**

**Product:**
Remarks: Causes sensitisation.

**Germ cell mutagenicity**
no data available

**Carcinogenicity**
no data available

**Reproductive toxicity**
no data available

Citrus, ext.:
4-Nonylphenol branched, ethoxylated:
1-propoxypropan-2-ol:
Orange, sweet, ext.:

**STOT - single exposure**
no data available

**STOT - repeated exposure**
no data available

**Aspiration toxicity**
no data available

**Further information**

**Product:**
Remarks: Solvents may degrease the skin.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**
no data available

**Persistence and degradability**
no data available

**Bioaccumulative potential**
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Version 1.0  Revision Date 02/26/2015  Print Date 06/09/2015

**Product:**
- Partition coefficient: n-octanol/water
  - Remarks: no data available

**Mobility in soil**
- no data available

**Other adverse effects**
- no data available

**Product:**
- Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
  - Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

**Additional ecological information**
- An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life.

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### SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**
- Waste from residues: The product should not be allowed to enter drains, water courses or the soil.
  - Do not contaminate ponds, waterways or ditches with chemical or used container.
  - Dispose of in accordance with local regulations.

- Contaminated packaging: Empty remaining contents.
  - Dispose of as unused product.
  - Do not re-use empty containers.
  - Do not burn, or use a cutting torch on, the empty drum.

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### SECTION 14. TRANSPORT INFORMATION

**Transportation Regulation:**
- 49 CFR (USA): This material is not classified.
- IMDG (Vessel): This material is not classified.
- IATA (Cargo Air): This material is not classified.
- IATA (Passenger Air): This material is not classified.
Transportation Regulation: TDG (Canada):
This material is not classified.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium dodecylbenzenesulfonate</td>
<td>25155-30-0</td>
<td>1000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards:
- Acute Health Hazard
- Fire Hazard

SARA 302:
- SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313:
- SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65:
WARNING! This product contains a chemical known to the State of California to cause cancer.

| 2,2'-iminodiethanol                  | 111-42-2      |

The components of this product are reported in the following inventories:

TSCA: On TSCA Inventory
DSL: This product contains one or several components that are not on the Canadian DSL nor NDSL.
AICS: On the inventory, or in compliance with the inventory
NZIoC: Not in compliance with the inventory
PICCS: On the inventory, or in compliance with the inventory
IECSC: On the inventory, or in compliance with the inventory

Inventory Acronym and Validity Area Legend:
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION
Further information

**NFPA:**
- **Flammability:** 2
- **Health:** 2
- **Reactivity:** 0

**Special hazard:**
- **Flammability:** Special hazard.

**HMIS III:**
- **Health:** 2
- **Flammability:** 2
- **Physical Hazard:** 0

NFPA and HMIS III ratings:
- 0 = not significant
- 1 = Slight
- 2 = Moderate
- 3 = High
- 4 = Extreme
- * = Chronic

**OSHA GHS Label Information:**

**Hazard pictograms:**
- Flammable liquid and vapour
- Health hazard
- Physical hazard

**Signal word:** Danger

**Hazard statements:** Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

**Precautionary statements:**
- **Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.
- **Response:** If swallowed: Immediately call a POISON CENTER or doctor/physician. If on skin (or hair): Remove all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do NOT induce vomiting. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- **Storage:** Store in a well-ventilated place. Keep cool. Store locked up.
- **Disposal:** Dispose of contents/container in accordance with local regulation.

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