

Lemon Supreme

Revision Date 11/30/2016

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | | |
|---|--|--|
| Product Name | Lemon Supreme | Item |
| Product Use | Pot and Pan Detergent | |
| Company Name | ChemMark of Houston, Inc. 6531 Petro Park Houston TX 77041 | Office (832) 467-1233 Fax (832) 467-1735 Web www.chemmarkhouston.com |
| EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053 | | |

SECTION – 2 HAZARDS INFORMATION

Pictogram



Signal Word Warning

Hazards Health, Physical and Environmental Hazard Statements

Causes serious eye irritation
Toxic to aquatic life
Toxic to aquatic life with long lasting effects

| <u>Hazard Classification</u> | <u>Code</u> |
|------------------------------|-------------|
| Category 2A Eyes | H319 |
| Category 2 Acute Toxicity | H401 |
| Category 2 Chronic Toxicity | H411 |

Precautions Handling and Storage

Keep out of reach of children
Do not get in eyes, on skin, or on clothing
Wash thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid release to the environment
Use personal protective equipment as required
Store in a closed container

Code

P102
P262
P264
P270
P273
P281
P404

SECTION – 3 COMPOSITION INFORMATION

(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

| <u>CHEMICAL NAME</u> | <u>COMMON NAME AND SYNONYMS</u> | <u>CAS #</u> | <u>IMPURITIES</u> | <u>PERCENT</u> |
|-------------------------|----------------------------------|--------------|-------------------|----------------|
| Sodium Laureth Sulfate | Sodium Lauryl Ether Sulphate | 68585-34-2 | | 1 - 10% |
| Sodium Benzenesulfonate | Sodium (C10-16) benzenesulfonate | 68081-81-2 | | 10 - 30% |

SECTION – 4 FIRST AID MEASURES

EYE CONTACT Immediately flush eyes with cold water for several minutes while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, If irritation persists seek medical aid

SKIN CONTACT Wash with water

INHALATION Not Applicable

INGESTION DO NOT INDUCE VOMITING. If person is fully conscious, rinse mouth out and give one to two glasses of water to dilute and obtain immediate medical attention

Aspiration Hazard Not applicableACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Can cause serious eye irritation, discomfort, redness, tearing

Skin Not applicable

Inhalation Not applicable

Ingestion May be harmful if swallowed, Symptoms may include, nausea, diarrhea, vomiting, abdominal pain

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye irritation, tearing, burning, or pain

Skin May cause mild skin irritation, defatting of the skin which may lead to dermatitis

Inhalation Not applicable

Ingestion May be harmful if swallowed, Symptoms may include, nausea, diarrhea, vomiting, abdominal pain

SECTION – 5 FIRE FIGHTING MEASURES

| | |
|--------------------------------|---|
| Extinguishing Media | Not flammable: Use extinguishing media for surrounding fire |
| Hazardous Decomposition | Burning or thermal decomposition can produce, sulfur oxides, carbon monoxide, carbon dioxide, nitrogen oxides, sodium oxides, and other toxic fumes |
| Reactive With | Reactive with, strong oxidizing agents |
| Explosion Hazards | Not applicable |
| Static Discharge | Not applicable |
| Mechanical Impact | Not applicable |
| Protective Equipment | Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear |

SECTION – 6 ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------|--|
| Emergency Procedures | Warn personnel of spill |
| Personal Precautions | Avoid slipping on spilled product |
| Protective Equipment | Safety Glasses, Gloves |
| Containment | Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the environment |
| Clean Up Procedures | Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water |
| Disposal | Dispose of material in accordance with all State and Federal Guidelines and Regulations |

SECTION – 7 HANDLING AND STORAGE

| | |
|-------------------------------|---|
| Handling | Use appropriate safety equipment, Avoid eye contact, Do not smoke, eat or drink while using, Wash thoroughly after handling, Avoid release to the environment, Triple rinse container before discarding |
| Storage | KEEP OUT OF REACH OF CHILDREN, Keep container closed when not in use, Store away from incompatible materials |
| Incompatible Materials | Incompatible with, strong oxidizing agents |

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE LIMITS**

| CHEMICAL NAME | ACGIH (TWA 8) | ACGIH (STEL) | OSHA PEL (TWA 8) | OSHA (CEIL) | Significant Exposure |
|-------------------------|------------------|--------------|------------------|-------------|----------------------|
| Sodium Benzenesulfonate | None Established | | | | EI |
| Sodium Laureth Sulfate | None Established | | | | |

PERSONAL PROTECTIVE EQUIPMENT

Chemical Safety Glasses, Goggles or Face Shield



Eye Wash (Recommended)

**Ventilation**

General Ventilation

HMIS HAZARD RATINGS

| | |
|---------------------|---|
| Health | 1 |
| Flammability | 0 |
| Reactivity | 0 |
| Personal Protection | A |

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------------|-----------------------------------|-----------------------------------|-----------------|
| Flash Point | > 93.3°C (200°F) - TAG Closed Cup | Specific Gravity / Density | 1.01 |
| Flammable Limits | ND | pH (± 0.3) | 7.0 to 8.5 |
| Auto-Ignition Temp. | ND | Viscosity | ND |
| Physical State | Liquid | Freeze Point | ~ 0°C (32°F) |
| Appearance | Clear | Boiling Point | ~ 100°C (212°F) |
| Odor | Lemon | Vapor Density (air=1) | ND |
| Odor Threshold | ND | Vapor Pressure (mm Hg) | ND |
| Solubility | 100% | Evaporation Rate (nBuAc=1) | ND |
| Volatiles | ND | Partition Coefficient | ND |
| VOC | < 0.05% | Molecular Weight (g/mol) | ~ 148.81 |
| LVP-VOC | 0.0% | Decomposition Temperature | ND |

SECTION – 10 STABILITY AND REACTIVITY

| | |
|---------------------------------|---|
| Reactivity (Specific Test Data) | None available |
| Chemical Stability | Stable at normal ambient temperature and pressure |
| Hazardous Polymerization | Will not occur |
| Conditions To Avoid | Incompatible materials |
| Incompatible Materials | Incompatible with, strong oxidizing agents |
| Thermal Decomposition | Burning or thermal decomposition can produce, sulfur oxides, carbon monoxide, carbon dioxide, nitrogen oxides, sodium oxides, and other toxic fumes |

SECTION – 11 TOXICOLOGICAL INFORMATION**ROUTES OF EXPOSURE**

Eyes (Yes), Ingestion (Yes)

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

| | |
|------------|---|
| Eyes | Can cause serious eye irritation, discomfort, redness, tearing |
| Skin | Not applicable |
| Inhalation | Not applicable |
| Ingestion | May be harmful if swallowed, Symptoms may include, nausea, diarrhea, vomiting, abdominal pain |

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

| | |
|----------------------|---|
| Eyes | Causes serious eye irritation, tearing, burning, or pain |
| Skin | May cause mild skin irritation, defatting of the skin which may lead to dermatitis |
| Inhalation | Not applicable |
| Ingestion | May be harmful if swallowed, Symptoms may include, nausea, diarrhea, vomiting, abdominal pain |
| Acute Tox Calculated | Oral: 3,562 mg/kg Dermal: 5,508 mg/kg Inhaled: > 50.0 mg/L |
| Acute Tox Category | Not applicable (Oral >2,000 mg/kg), Not applicable (Dermal >5000 mg/kg), Not applicable (Inhaled >12.5 mg/L) Dust or Mist |

Additional Info

| | |
|--------------------|---|
| Target Organs | No target organs listed |
| Medical Conditions | No medical conditions known to be aggravated by the use of this product |
| Notes to Physician | In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption |

CARCINOGENIC – This product contains concentrations above 0.1% of the following:

| <u>CHEMICAL NAME</u> | <u>NTP</u> | <u>ACGIH</u> | <u>IARC</u> | <u>GHS Category</u> |
|----------------------|------------|--------------|-------------|---------------------|
| None Listed | NA | NA | NA | NA |

MUTAGENIC AND REPRODUCTIVE EFFECTS – This product contains concentrations above 0.1% of the following:

| <u>CHEMICAL NAME</u> | <u>Germ Cell Mutagenicity</u> | <u>Toxic to Reproduction</u> |
|----------------------|-------------------------------|------------------------------|
| None Listed | NA | NA |

COMPONENTS ACUTE TOXICITY

| <u>CHEMICAL NAME</u> | <u>Type</u> | <u>Form</u> | <u>Subject</u> | <u>Result Value</u> | <u>Exposure Time</u> | <u>GHS Category</u> |
|-------------------------|-------------|-------------|----------------|---------------------|----------------------|-----------------------|
| Sodium Laureth Sulfate | LD50 | Oral | Rat | > 6,670 mg/kg | | (>2000 mg/kg) |
| | LD50 | Dermal | Rabbit | > 6,670 mg/kg | | (>2000 mg/kg) |
| Sodium Denzenesulfonate | LD50 | Oral | Rat | > 1000 mg/kg | | 4 (>300, ≤2000 mg/kg) |
| | LD50 | Dermal | Rabbit | > 2000 mg/kg | | (>2000 mg/kg) |

SECTION – 12 ECOLOGICAL INFORMATION

| <u>CHEMICAL NAME</u> | <u>Type</u> | <u>Subject</u> | <u>Subject Latin</u> | <u>Result Value</u> | <u>Exposure Time</u> | <u>GHS Category</u> |
|-------------------------------|--|----------------|----------------------|---------------------|----------------------|---------------------|
| Sodium Laureth Sulfate | EC50 | Water Flea | (Daphnia magna) | 1 mg/L | | 2 (>1, ≤10 mg/L) |
| Sodium Denzenesulfonate | LC50 | Fish | (Unknown species) | 1.67 mg/L | 96 Hours | 2 (>1, ≤10 mg/L) |
| | EC50 | Algae | (Not specified) | 2.4 mg/L | 72 Hours | 2 (>1, ≤10 mg/L) |
| | EC50 | Water Flea | (Daphnia magna) | 29 mg/L | 48 Hours | 3 (>10, ≤100 mg/L) |
| Presistence And Degradability | No specific biodegradation test data was located | | | | | |
| Bioaccumulative Potential | There is no evidence to suggest bioaccumulation will occur | | | | | |
| Mobility In Soil | This material is a partially mobile liquid | | | | | |
| Other Adverse Effects | Toxic to aquatic life with long lasting effects | | | | | |

SECTION – 13 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY STORM SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER
Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

ENVIRONMENTAL FATE

Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste

CONTAINER DISPOSAL - Triple rinse empty container then offer for recycling. If not available, puncture and dispose in a sanitary landfill

SECTION – 14 TRANSPORT INFORMATION**DOT CLASSIFICATION**

| <u>UN Number</u> | <u>Proper Shipping Name</u> n.o.s. (Chemicals) or "Limits" | | | | | | |
|-------------------------|--|--------------------|----------------------------------|-----------------|-------------------------|---------------------|------------------|
| Not Regulated | Non Hazardous – Compounds Cleaning Liquid | | | | | | |
| <u>Hazard Class</u> | <u>Packing Group</u> | <u>Label Codes</u> | <u>Reportable Quantity (lbs)</u> | <u>Response</u> | <u>Marine Pollutant</u> | <u>Hazard Label</u> | <u>Secondary</u> |
| None | None | None | None | 154 | No | | |
| Additional Info: | | | | | | | |

SECTION – 15 REGULATORY INFORMATION**TSCA**

| <u>CHEMICAL NAME</u> | <u>Sec 8(b) Inventory</u> | <u>Sec 8(d) Health And Safety</u> | <u>Sec 4(a) Chemical Test Rules</u> | <u>Sec 12(b) Export Notification</u> |
|-------------------------|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Sodium Denzenesulfonate | Yes | | | |

REPORTABLE QUANTITIES

| <u>CHEMICAL NAME</u> | <u>Extremely Hazardous</u> | <u>Reportable Quantity</u> | <u>Emission Reporting</u> | | | |
|----------------------|----------------------------|----------------------------|---------------------------|--------------------|------------------|------------------------|
| <u>CHEMICAL NAME</u> | <u>EPCRA TPQ Sec 302</u> | <u>EPCRA RQ Sec 304</u> | <u>CERCLA RQ Sec 103</u> | <u>TRI Sec 313</u> | <u>RCRA Code</u> | <u>RMP TQ Sec 112r</u> |
| None Listed | | | | | | |

SARA

| <u>CHEMICAL NAME</u> | <u>Section 311</u> | | | <u>Section 311 / 312 Hazards</u> | | | |
|-------------------------|---------------------------|--------------|----------------|----------------------------------|-----------------|-----------------|--|
| | <u>Hazardous Chemical</u> | <u>Acute</u> | <u>Chronic</u> | <u>Flammable</u> | <u>Pressure</u> | <u>Reactive</u> | |
| Sodium Denzenesulfonate | Yes | Yes | | | | | |

RIGHT TO KNOW

| <u>CHEMICAL NAME</u> | <u>STATE</u> | | | | | | | | | | | | |
|----------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | <u>CA</u> | <u>CT</u> | <u>FL</u> | <u>IL</u> | <u>LA</u> | <u>NJ</u> | <u>NY</u> | <u>PA</u> | <u>MI</u> | <u>MN</u> | <u>MA</u> | <u>RI</u> | <u>WI</u> |
| None Listed | | | | | | | | | | | | | |

CALIFORNIA

| <u>CHEMICAL NAME</u> | <u>CAS #</u> | <u>WARNING! This product contains chemicals known to the state of California to cause:</u> | | | |
|----------------------|--------------|--|--------------------------|-------------------|----------------------|
| | | <u>Birth Defects</u> | <u>Reproductive Harm</u> | <u>Carcinogen</u> | <u>Developmental</u> |
| None Listed | | | | | |

CLEAN AIR WATER ACTS

| <u>CHEMICAL NAME</u> | <u>CAS #</u> | <u>Clean Air Acts</u> | | | <u>Clean Water Acts</u> | | |
|----------------------|--------------|-----------------------|----------------------|----------------------|-------------------------|-----------|-----------|
| | | <u>HAP</u> | <u>Ozone Class 1</u> | <u>Ozone Class 2</u> | <u>HS</u> | <u>PP</u> | <u>TP</u> |
| None Listed | | | | | | | |

INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries:

| <u>CHEMICAL NAME</u> | <u>Australia</u> | <u>Canada</u> | <u>Europe (EINECS)</u> | <u>Japan</u> | <u>Korea</u> | <u>UK</u> |
|-------------------------|------------------|---------------|------------------------|--------------|--------------|-----------|
| Sodium Denzenesulfonate | Yes | Yes | Yes | Yes | Yes | Yes |
| Sodium Laureth Sulfate | Yes | Yes | | | Yes | Yes |

WHMIS Classification

| <u>CHEMICAL NAME</u> | <u>DSL</u> | <u>Class</u> | <u>Description</u> |
|------------------------|------------|--------------|---|
| Sodium Laureth Sulfate | Yes | D-2B | Materials Causing Other Toxic Effects; Toxic Material |

SECTION – 16 OTHER INFORMATION**SDS LEGEND DESCRIPTION**

| | | | |
|---------------|---|--------------|--|
| ~ | Approximately | * | Additional Information |
| ACGIH | American Conference of Governmental Industrial Hygienists | LC50 | A concentration that is lethal to 50% of a given species in a given time |
| CAS | Chemical Abstracts Service Registry | LD50 | Dose that is lethal to 50% of a given species by a given route of exposure |
| CEIL | Ceiling Limit (15 minutes) | LEL | Lower Explosive Limit |
| CERCL | Comprehensive Environmental Response, Compensation, and Liability Act | LD | Liver Damage |
| CI | Cochlear Impairment | NA | Not Applicable |
| CNS | Central Nervous System | ND | Not Determined |
| EC50 | Concentration of a chemical that gives half-maximal response | NE | Not Established |
| EPA | Environmental Protection Agency | NFPA | National Fire Protection Association |
| Eye | (EI = Irritation) (ED = Damage) (EV = Visual Impairment) | NIOSH | National Institute for Occupational Safety and Health |
| FBG | Full Bunker Gear | NTP | National Toxicology Program |
| GHS | Globally Harmonized System | OSHA | Occupational Safety and Health Administration |
| HAP | California Hazardous Air Pollutant Clean Air Act | PEL | Permissible Exposure Limit (OSHA) |
| HMIS-A | Safety glasses | PNS | Peripheral Nervous System |
| HMIS-B | Safety glasses, gloves | PP | California Priority Pollutant under the Clean Water Act |
| HMIS-C | Safety glasses, gloves, chemical apron | REL | Recommended exposure limit (NIOSH) |
| HMIS-D | Face shield, gloves, chemical apron | RT | Upper Respiratory Tract |
| HMIS-E | Safety glasses, gloves, dust respirator | Skin | (SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer) |
| HMIS-F | Safety glasses, gloves, chemical apron, dust respirator | SARA | Superfund Amendments and Reauthorization Act |
| HMIS-G | Safety glasses, gloves, vapor respirator | STEL | Short Term Exposure Limit (15 minutes) |
| HMIS-H | Splash goggles, gloves, chemical apron, vapor respirator | TC Lo | Lowest concentration that is toxic to a given species in a given time |
| HMIS-I | Safety glasses, gloves, dust and vapor respirator | TD Lo | Lowest dose that is toxic to a given species |
| HMIS-J | Splash goggles, gloves, chemical apron, dust and vapor respirator | TLV | Threshold Limit Value (ACGIH) |
| HMIS-K | Air line hood or mask, gloves, full chemical suit, boots | TP | California Toxic Pollutant under the Clean Water Act |
| HMIS-X | Ask Supervisor | TSCA | Toxic Substances Control Act |
| HS | California Hazardous Substance under the Clean Water Act | TWA | Time Weighted Average (8 hours) |
| KD | Kidney Damage (nephropathy) | UEL | Upper Explosive Limit |

ChemMark of Houston, Inc.

and nCites LLC have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.

Print Date 11/30/2016

Supersedes Safety Data Sheet Dated