1. Identification

Product Identifier: Lock-N-Load Jr. #12 Apple Blossom Deodorizer
Other means of identification:
Product code: CU-JRL-12
Recommended use: Concentrated water soluble deodorizer.
Recommended restrictions: None.
Manufacturer information:
Company name: Chemical Universe, Inc.
Address: 1133 Saline St.
North Kansas City, MO 64116
Telephone: (816) 471-3602
FAX: (816) 474-3302
Emergency phone number:
PERS: (800) 633-8253
24 hour Emergency: (800) 633-8253

2. Hazard(s) Identification

Physical hazards: Not classified.
Health hazards: Skin Irritant Category 3
Eye Irritant Category 2B
Environmental hazards: Not classified.
OSHA defined hazards: Not listed.
Label elements: None.
Signal word: Warning.
Hazard statement:
Causes mild skin irritation.
Causes eye irritation.
Precautionary statement:
Prevention: Wash hands and exposed skin thoroughly after handling.
Response: If skin irritation occurs: Get medical advice/attention. 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.
Storage: None.
Disposal: None.
Hazard(s) not otherwise classified (HNOC): None.
Supplemental information: None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol C12-C16, ethoxylated</td>
<td>68551-12-2</td>
<td>1-10</td>
</tr>
<tr>
<td>2-propanol</td>
<td>67-63-0</td>
<td>1-5</td>
</tr>
<tr>
<td>Fragrance</td>
<td>Proprietary</td>
<td>1-5</td>
</tr>
<tr>
<td>Other components below reportable levels</td>
<td>80-100</td>
<td></td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact
Rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention. Eye wash stations should be located in work area.

Ingestion
Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting.

Most important symptoms/effects, acute and delayed
Dermatitis. Rash. May cause an allergic skin reaction.

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

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.

Fire-fighting equipment/instructions
Move containers from fire area if you can do so without risk.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear appropriate protective equipment and clothing during clean-up. Wear eye/face protection.

Methods and materials for containment and cleaning up
Caution – spillages may be slippery.

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.

Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions
Do not release into the environment (see section 12). Avoid discharge into areas not consistent with package labeling.

7. Handling and storage

Precautions for safe handling
Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Store in original tightly closed container. Do not store in extreme conditions.
8. Exposure controls/personal protection

Occupational exposure limits
US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol</td>
<td>STEL</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

US ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol</td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

Biological limit values

ACGIH Biological Exposure Indices

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Species</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol</td>
<td>40 mg/L</td>
<td>Acetone</td>
<td>Urine</td>
<td>End of shift at end of workweek.</td>
</tr>
</tbody>
</table>

Appropriate engineering controls
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.

Individual protection measures, such as personal protective equipment

Eye/face protection
Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection
Wear appropriate chemical resistant gloves.

Other
None.

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

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
When using do not smoke or use chewing tobacco. 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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical State    Liquid.
Color             Green.
Odor              Apple blossom.
Odor threshold    Not available.
pH                6-8
Melting/freezing point  32°F (0°C)
Initial boiling point and boiling range >212°F (100°C)
Flash point       >212°F (100°C)
Evaporation rate  Not available.
Flammability      Not available.
Flammability Limits
Upper            Not available.
Lower            Not available.
Vapor pressure Not available.
Vapor density Not available.
Specific gravity (water=1) 0.99
Solubility in water Soluble.
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity Not available.

10. Stability and reactivity

Reactivity This product is stable and non-reactive under normal conditions of use.
Chemical stability Material is stable under normal conditions.
Possibility of hazardous reactions Hazardous polymerization does not occur.
Conditions to avoid Heat, flames can cause product to decompose.
Incompatible materials Strong acids, strong bases, strong oxidizing agents.
Hazardous decomposition products Aldehydes, ketones, organic acids.

11. Toxicological information

Information on likely routes of exposure
Ingestion Expected to be a low ingestion hazard.
Inhalation Expected to be a low inhalation hazard.
Skin contact Repeated and/or prolonged skin contact may cause slight irritation.
Eye contact Causes eye irritation. Prolonged eye contact may cause severe irritation.
Symptoms related to the physical, chemical and toxicological characteristics Dermatitis. Rash. May cause an allergic skin reaction.
Acute toxicity Not established.

<table>
<thead>
<tr>
<th>Product</th>
<th>Route and Species</th>
<th>LD₅₀</th>
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</thead>
<tbody>
<tr>
<td>Lock-N-Load Jr. #12 Apple Blossom Deodorizer (CAS mixture) Acute Oral, rat</td>
<td>13,700 mg/kg estimated</td>
<td></td>
</tr>
</tbody>
</table>

*Estimates for product may be based on additional component data not shown

Skin corrosion/irritation Causes mild skin irritation.
Serious eye damage/irritation Causes eye irritation.
Respiratory sensitization Not classified.
Skin sensitization Not classified.
Germ cell mutagenicity Not classified.
Carcinogenicity Not considered a carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not Listed.
Reproductive toxicity Not classified.
Specific target organ toxicity – single exposure Not classified.
Specific target organ toxicity  
– repeated exposure  
Not classified.

Aspiration hazard  
Not considered an aspiration hazard.

12. Ecological information

Ecotoxicity

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>EC_{50}(48hr): 24 mg/L estimated</th>
<th>LC_{50}(96hr): 250 mg/L estimated</th>
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</thead>
<tbody>
<tr>
<td>Lock-N-Load Jr. #12 Apple Blossom Deodorizer (CAS mixture)</td>
<td>Crustacea</td>
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<td></td>
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<tr>
<td></td>
<td>Daphnia</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Fathead</td>
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<td></td>
</tr>
</tbody>
</table>

*Estimates for product may be based on additional component data not shown

Persistence and degradability  
Alcohol ethoxylates are considered readily biodegradable.

Bioaccumulative potential  
No data available.

Mobility in soil  
Not available.

Other adverse effects  
Not available.

13. Disposal considerations

Disposal instructions  
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Do not release to the environment.

Local disposal regulations  
Dispose in accordance with all applicable regulations.

Waste from residues/unused product  
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (see: Disposal instructions).

Contaminated packaging  
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT  
Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

SARA 302 Extremely hazardous substance  
Not listed.

SARA 304 Emergency release notification  
Not listed.

SARA 311/312 Hazard Categories

Immediate Hazard - Yes
Delayed Hazard – No
Fire Hazard – No
Pressure Hazard – No
Reactivity Hazard – No

SARA 313 (TRI reporting)  
Not listed.
16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th><strong>Issue date</strong></th>
<th>2/2/2015</th>
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<tr>
<td><strong>Revision date</strong></td>
<td>10/3/2017</td>
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<tr>
<td><strong>Version #</strong></td>
<td>2</td>
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<td><strong>HMIS® ratings</strong></td>
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<td>Flammability: 0</td>
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<td>Physical hazard: 0</td>
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<td><strong>NFPA ratings</strong></td>
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<td>Flammability: 0</td>
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<td></td>
<td>Instability: 0</td>
</tr>
<tr>
<td><strong>Disclaimer</strong></td>
<td>The information provided in this Safety Data Sheet is correct to the best of our knowledge, and have been obtained from resources believed to be reliable. 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 related 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 by the text.</td>
</tr>
<tr>
<td><strong>Revision information</strong></td>
<td>Hazard identification, composition/information on ingredients.</td>
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