SAFETY DATA SHEET

1. Identification

Product Identifier: Sand & Silt Remover
Other means of identification:
Product code: CU-8165
Recommended use: Neutral cleaner.
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: 911
24 hour Emergency: (800) 633-8253

2. Hazard(s) Identification

Physical hazards: Not classified.
Health hazards: Serious eye damage. Category 1
Environmental hazards: Not classified.
OSHA defined hazards: Not listed.
Label elements:

Signal word: Danger
Hazard statement: Causes serious eye damage.
Precautionary statement:
Prevention: Wear eye protection/face protection.
Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor/medical professional.

Storage:
Disposal:
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>Nonylphenol ethoxylate</td>
<td>127087-87-0</td>
<td>10-20</td>
</tr>
<tr>
<td>Other components below reportable levels</td>
<td></td>
<td>90-100</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
None established

Biological limit values
None established

Appropriate engineering controls
Emergency eye wash stations and showers should be readily accessible. Provide natural or mechanical ventilation.

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
Respiratory protection not required.

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
Clear liquid.
Color
Colorless.
Odor
Characteristic.
Odor threshold
Not available.
pH
6-7
Melting/freezing point
Not available.
Initial boiling point and boiling range
>212°F (100°C)
Flash point
>385°F (196°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)
1.01
Solubility in water
Soluble.
Partition coefficient (n-octanol/water)
Not available.
Auto-ignition temperature
Not available.
Decomposition temperature
Decomposes on heating.
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
May cause severe eye damage. May cause severe corneal injury.

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>
</tr>
</thead>
<tbody>
<tr>
<td>Sand &amp; Silt Remover (CAS mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td>Oral, rat</td>
<td>6,500 mg/kg estimated</td>
</tr>
<tr>
<td></td>
<td>Dermal, rabbit</td>
<td>&gt;2,000 mg/kg estimated</td>
</tr>
</tbody>
</table>

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

Skin corrosion/irritation
Not classified.

Serious eye damage/irritation
Causes severe eye damage.

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>Test Results</th>
</tr>
</thead>
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<td>Sand &amp; Silt Remover (CAS mixture)</td>
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<td></td>
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</tbody>
</table>
Aquatic Crustacea Fish
Daphnia Fathead
EC_{50}(48hr): 63.2 mg/L estimated
LC_{50}(96hr): 25.8 mg/L estimated

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

Persistence and degradability  Nonylphenyl ethoxylate: not considered readily biodegradable, but doesn’t mean this material isn’t biodegradable under certain environmental conditions.
Bioaccumulative potential  No data available.
Mobility in soil  Not available.
Other adverse effects  This product is harmful to aquatic wildlife.

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

Issue date  3/4/2015
Revision date  3/4/2015
Version #  1

Material Name: Sand & Silt Remover
HMIS® ratings
- Health: 1
- Flammability: 0
- Physical hazard: 0

NFPA ratings
- Health: 1
- Flammability: 0
- Instability: 0

Disclaimer
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.

Revision information
First issue.