SAFETY DATA SHEET

According to EC Directive 1907/2006/EC

Preparation Date 09-Jan-2009  Revision Date 18-Jan-2013  Revision Number: 6

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND THE COMPANY / UNDERTAKING

1.1 Product Identifier
   - Product code: U1A203
   - Product name / trade name: AGITAN® A203

1.2. Relevant identified uses of the substance or mixture and uses advised against
   - Recommended Use: Antifoam agent / Defoamer

1.3. Details of the supplier of the safety data sheet
   - Contact Manufacturer: Munzing - Ultra Additives LLC.
     1455 Broad Street
     Bloomfield NJ 07003
     United States
   - Email: info@munzing.us
   - Phone: 1-973-279-1306

1.4. Emergency Telephone Number
   - CHEMTREC (24 hrs - for spill, leak or transportation incidents):
     US: 1-800-424-9300
     non-US: 1-703-527-3887
   - EU: +49 761 19240 (VIZ Freiburg)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
   The product is classified and labelled in accordance with Directive 67/548/EEC or 1999/45/EC

2.2. Label Elements
   - EU Symbol(s): Not dangerous

   - R-phrase(s): This product does not require any hazard labelling
S -phrase(s)
This product does not require any hazard labelling

2.3. Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures
Chemical nature of the product
Petroleum oil-based mixture

Hazardous components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>EC No.</th>
<th>GHS(*)</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, solvent dewaxed heavy</td>
<td>64742-65-0</td>
<td></td>
<td>265-169-7</td>
<td>--</td>
<td>&gt;70</td>
</tr>
<tr>
<td>paraffinic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(*)GHS Reference
CLP (1272/2008)

Component Notes
Petroleum distillates, solvent dewaxed heavy paraffinic

L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. This note applies only to certain complex oil derived substances in Annex I

For the full text of the R phrases mentioned in this Section, see Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures
Eye Contact
Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin Contact
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

Ingestion
Gently wipe or rinse the inside of the mouth with water. Do not induce vomiting without medical advice.

Inhalation
Move to fresh air

4.2. Most important symptoms and effects, both acute and delayed
Irritation.

4.3. Indication of any immediate medical attention and special treatment needed
Immediate medical attention is not required

Notes to Physician
Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

According to EC Directive 1907/2006/EC
SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media
In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Specific hazards arising from the substance or mixture
Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.

5.3. Advice for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Remove all sources of ignition. Avoid exceeding of the given occupational exposure limits (see section 8).

6.2. Environmental precautions
Avoid release to the environment. Try to prevent the material from entering drains or water courses. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up
Prevent spreading over a wide area (e.g. by containment or oil barriers). Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13).

6.4. Reference to other sections
Material can create slippery conditions.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

7.2. Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)
See 1.2 Relevant identified uses of the substance or mixture and uses advised against.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters
Engineering Controls: Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment.

8.2. Exposure controls
Personal Protective Equipment:
- Respiratory Protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Eye Protection: Tightly fitting safety goggles
- Skin Protection: Impervious clothing. For prolonged or repeated contact use protective gloves. PVC. Neoprene. PVA.
General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing.

Environmental exposure controls
No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties
Typical properties provided; These values do not represent product specifications.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Opaque, White</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>196°C / 385°F</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility (in H2O)</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>not an oxidizer</td>
</tr>
<tr>
<td>Solid content (%)</td>
<td>&gt;98</td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific Gravity (g/cm3)</td>
<td>0.85</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Pressure, 20C/68F</td>
<td>No information available</td>
</tr>
<tr>
<td>Density</td>
<td>0.85 kg/L; 7.1 #/gal</td>
</tr>
<tr>
<td>VOC Content</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&lt;3400 cps @25C</td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td>No information available</td>
</tr>
</tbody>
</table>

9.2. Other information
None

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
Stable under normal conditions

10.2. Chemical stability
Stable under normal conditions

10.3. Possibility of Hazardous Reactions
Hazardous polymerisation does not occur. None under normal processing.

10.4. Conditions to Avoid
Heat, flames and sparks

10.5. Incompatible Materials
Strong oxidizing agents.

10.6. Hazardous Decomposition Products
Thermal decomposition can lead to release of irritating gases and vapours. Carbon oxides. Silicon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

According to EC Directive 1907/2006/EC
SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information
Information given is based on data on the components and the toxicology of similar products

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, solvent dewaxed heavy paraffinic</td>
<td>5000 mg/kg (Rat)</td>
<td>&gt;5000 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>N,N'-Ethylenebis(stearamide)</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt;2000 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Treated silica</td>
<td>6350 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rat)</td>
<td>-</td>
</tr>
</tbody>
</table>

Chronic Toxicity

Carcinogenicity
There are no known carcinogenic chemicals in this product (IARC, ACGIH, US OSHA, US NTP).

Irritation
Non persistent irritation. Skin, rabbit: . Eye, rabbit: .

Sensitization
No known effect.

Neurological Effects
No information available

Mutagenic Effects
No information available

Reproductive Effects
No information available

Developmental Effects
No information available

Target Organ Effects
Respiratory system, Skin.

Other Adverse Effects
None known

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects:
Discharge into the environment must be avoided
Aquatic toxicity is unlikely due to low solubility

<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>Petroleum distillates, solvent dewaxed heavy paraffinic</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>N,N'-Ethylenebis(stearamide)</td>
<td>-</td>
<td>LC50 (96 h): &gt;1000 mg/l (Rainbow trout)</td>
<td>-</td>
<td>EC50 (48 h): 140 mg/l (Daphnia)</td>
</tr>
<tr>
<td>Treated silica</td>
<td>-</td>
<td>LC50: &gt;10000 mg/l, 96h</td>
<td>-</td>
<td>EC50: &gt;10000 mg/l, 24h</td>
</tr>
</tbody>
</table>

12.2. Persistence and Degradability
Not readily biodegradable..
12.3. Bioaccumulative Potential
Not likely to bioaccumulate

12.4. Mobility in soil
No information available

12.5. Results of PBT and vPvB assessment
No information available

12.6. Other adverse effects
The product is insoluble and floats on water.

### SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
- **Waste from Residues / Unused Products**
  Can be incinerated, when in compliance with local regulations
- **Contaminated Packaging**
  Empty containers should be taken for local recycling, recovery or waste disposal. Do not burn, or use a cutting torch on, the empty drum.
- **EWC waste disposal**
  No information available
- **Other Information**
  According to the European Waste Catalogue, Waste Codes are not product specific, but application specific

### SECTION 14: TRANSPORT INFORMATION

- **ADR/RID**
  Not regulated
- **UN-Number**
  Not applicable
- **UN Proper Shipping Name**
  Not applicable
- **Transport hazard class**
  Not applicable
- **Packing Group**
  Not applicable
- **Environmental hazards**
  Not applicable
- **Special precautions for user**
  Not applicable
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
  Not applicable

### SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- **WGK Classification**
  Water endangering class = 1 (self estimation)

15.2. Chemical safety assessment
- A chemical safety assessment has not been performed.

### International Inventories
- **All of the components in the product are on or exempt from the following Inventory lists**
- **Canada DSL**
  Complies
- **China IECSC**
  Complies

According to EC Directive 1907/2006/EC
EU EINECS/ELINCS  Complies
Japan ENCS  Complies
Korea KECL  Complies
New Zealand NZIoCS  Complies
Philippines PICCS  Complies
Australia AICS  Complies
US TSCA  Complies

SECTION 16: OTHER INFORMATION

Text of R phrases mentioned in Section 3
Not applicable

Full text of H-Statements referred to under sections 2 and 3
Not applicable

Preparation Date  09-Jan-2009
Revision Date  18-Jan-2013
Revision Summary  Update to Format

Disclaimer
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End of Safety Data Sheet