

### SECTION 1 - IDENTIFICATION

|                                        |                                            |
|----------------------------------------|--------------------------------------------|
| <b>Manufacturer:</b>                   | Superior Surface Solutions                 |
| <b>Address:</b>                        | 701 Woodswether Rd., Kansas City, MO 64105 |
| <b>Telephone:</b>                      | 816-471-5227                               |
| <b>Emergency phone:</b>                | (Infotrac) 800-535-5053                    |
| <b>Trade Name</b>                      | Acrylic Additive M                         |
| <b>Recommended and Restricted Uses</b> | Coatings product                           |

### SECTION 2 – HAZARD(S) IDENTIFICATION

|                               |                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------|
| <b>Hazard classification:</b> | GHS classification in accordance with 29 CFR 1910.1200 not a hazardous substance or mixture. |
| <b>Other hazards:</b>         | No data available.                                                                           |

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical nature: Acrylic emulsion. This product is a mixture. |               |               |
|---------------------------------------------------------------|---------------|---------------|
| Component                                                     | CASRN         | Concentration |
| Acrylic polymer(s)                                            | Not hazardous | 46.0 - 47.0 % |
| Residual monomers                                             | Not required  | < 0.05 %      |
| Aqua ammonia                                                  | 1336-21-6     | 0.2 0/0       |
| Diphenyl Ketone                                               | 119-61-9      | 0.1 0.2%      |
| Water                                                         | 7732-18-5     | 53.0 - 54.0%  |

### SECTION 4 - FIRST-AID MEASURES

Description of first aid measures

|                      |                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | Move to fresh air.                                                                                                      |
| <b>Skin contact:</b> | Wash with water and soap as a precaution. If skin irritation persists, call a physician.                                |
| <b>Ingestion:</b>    | Drink 1 or 2 glasses of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person. |

#### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 1 1: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

### SECTION 5 - FIRE-FIGHTING MEASURES

|                                        |                                                           |
|----------------------------------------|-----------------------------------------------------------|
| <b>Suitable extinguishing media:</b>   | Use extinguishing media appropriate for surrounding fire. |
| <b>Unsuitable extinguishing media:</b> | No data available                                         |

## SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

**Hazardous combustion products:** No data available  
**Unusual fire and explosion hazards:** Material can splatter above 100C/212F. Dried product can burn.

## ADVICE FOR FIREFIGHTERS

**Fire Fighting Procedures:** No data available  
**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective suit.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Keep people away from and upwind of spill/leak. Material can create slippery conditions.  
**Environmental precautions:** CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.  
**Methods and materials for containment and cleaning up:** Contain spills immediately with inert materials (e.g., sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

## SECTION 7 - STORAGE AND HANDLING

**Precautions for safe handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapors, mist or gas.  
**Conditions for safe storage:** Keep from freezing - product stability may be affected. STIR WELL BEFORE USE.

## STORAGE STABILITY

**Storage temperature:** 1 - 49°C (34 - 120°F)

**Other data:** Monomer vapors can be evolved when material is heated during processing operations. See SECTION 8, for types of ventilation required,

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters:** If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

| Component                | Regulation | Type of listing | Value/Notation  |
|--------------------------|------------|-----------------|-----------------|
| <b>Residual monomers</b> | Dow II-IG  | TWA             | 4 ppm           |
|                          | Dow II-IG  | TWA             | SKIN            |
|                          | Dow IHG    | STEL            | 10 ppm          |
|                          | Dow IHG    | STEL            | SKIN            |
| <b>Aqua ammonia</b>      | ACGIH      | TWA             | 20 ppm          |
|                          | Dow IHG    | TWA             | 10 ppm          |
|                          | Dow IHG    | STEL            | 30 ppm          |
|                          | OSHA Z-1   | TWA             | 35 mg/m3 50 ppm |

|                 |         |      |                 |
|-----------------|---------|------|-----------------|
|                 | ACGIH   | TWA  | 25 ppm, Ammonia |
|                 | ACGIH   | STEL | 35 ppm, Ammonia |
| Diphenyl Ketone | US WEEL | TWA  | 0.5 mg/m3       |

## EXPOSURE CONTROLS:

**Engineering controls:** Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

**Protective measures:** Facilities storing or utilizing this material should be equipped with an eyewash facility.

## INDIVIDUAL PROTECTION MEASURES:

**Eye/face protection:** Safety glasses with side-shields Eye protection worn must be compatible with respiratory protection system employed

**Skin protection/Hand protection:** The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection):  
Neoprene gloves

**Respiratory protection:** A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. For airborne concentrations up to 10 times the exposure limit, wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) ammonia/methylamine cartridges and N95 filters. If oil mist is present, use R95 or P95 filters.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

|                                              |                                               |                                                  |                         |
|----------------------------------------------|-----------------------------------------------|--------------------------------------------------|-------------------------|
| <b>Appearance:</b>                           | Liquid                                        | <b>Relative Vapor Density:<br/>(air = 1)</b>     | <1.0000 Water           |
| <b>Color:</b>                                | White milky                                   | <b>Relative Density (water=1)</b>                | 1.0000 - 1.2000         |
| <b>Odor:</b>                                 | Ammonia                                       | <b>Water Solubility</b>                          | Dilutable               |
| <b>pH:</b>                                   | 9.0 - 10.0                                    | <b>Partition coefficient:<br/>noctanol/water</b> | No data available       |
| <b>Melting Point:</b>                        | No data available                             | <b>Auto-ignition temperature</b>                 | No data available       |
| <b>Freezing Point:</b>                       | 0.00°C (32.00°F) Water                        | <b>Decomposition temperature</b>                 | No data available       |
| <b>Boiling Point (760 mmHg):</b>             | 100.00°C (212.00°F) Water                     | <b>Dynamic Viscosity</b>                         | No data available       |
| <b>Flash Point:</b>                          | Noncombustible                                | <b>Kinematic Viscosity</b>                       | No data available       |
| <b>Evaporation Rate:<br/>(Butyl Acetate)</b> | <1.00 Water                                   | <b>Explosive properties</b>                      | No data available       |
| <b>Flammability</b>                          | Not Applicable                                | <b>Oxidizing properties</b>                      | No data available       |
| <b>Upper Explosion Limit:</b>                | Not Applicable                                | <b>Molecular weight</b>                          | No data available       |
| <b>Vapor Pressure:</b>                       | 17.0000000 mmHg at 20.00°C<br>(68.00°F) Water | <b>Percent volatility</b>                        | 53.00 - 54.00 0/0 Water |

**NOTE:** The physical data presented above are typical values and should not be construed as a specification.

**SECTION 10 - STABILITY AND REACTIVITY**

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|                                                        |                                                                        |
|--------------------------------------------------------|------------------------------------------------------------------------|
| <b>Chemical reactivity:</b>                            | No data available                                                      |
| <b>Chemical stability:</b>                             | No data available                                                      |
| <b>Possibility of hazardous reaction:</b>              | Not available.                                                         |
| <b>Product will not undergo polymerization. Stable</b> |                                                                        |
| <b>Conditions to avoid:</b>                            | No data available                                                      |
| <b>Incompatible materials:</b>                         | There are no known materials which are incompatible with this product. |
| <b>Hazardous decomposition products:</b>               | Thermal decomposition may yield acrylic monomers.                      |

**SECTION 11 - TOXICOLOGICAL INFORMATION**

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|                                                                     |                                                                                                                                                                                                              |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute Toxicity:</b>                                              | Acute oral toxicity<br>LD50, Rat, > 5,000 mg/kg<br>Acute dermal toxicity<br>LD50, Rabbit, > 5,000 mg/kg<br>Acute inhalation toxicity<br>Acute toxicity estimate, 4 Hour, vapor, > 40 mg/l Calculation method |
| <b>Skin corrosion/irritation:</b>                                   | May cause transient irritation.                                                                                                                                                                              |
| <b>Serious eye damage/eye irritation:</b>                           | No eye irritation.                                                                                                                                                                                           |
| <b>Sensitization:</b>                                               | Product test data not available. Refer to component data.                                                                                                                                                    |
| <b>Specific Target Organ Systemic Toxicity (Single Exposure):</b>   | Product test data not available. Refer to component data.                                                                                                                                                    |
| <b>Specific Target Organ Systemic Toxicity (Repeated Exposure):</b> | Product test data not available. Refer to component data.                                                                                                                                                    |
| <b>Carcinogenicity:</b>                                             | Product test data not available. Refer to component data.                                                                                                                                                    |
| <b>Teratogenicity:</b>                                              | Product test data not available. Refer to component data.                                                                                                                                                    |
| <b>Reproductive toxicity:</b>                                       | Product test data not available. Refer to component data.                                                                                                                                                    |
| <b>Mutagenicity:</b>                                                | Product test data not available. Refer to component data.                                                                                                                                                    |
| <b>Aspiration Hazard:</b>                                           | Product test data not available. Refer to component data.                                                                                                                                                    |
| <b>Additional information</b>                                       | No data are available for this material. The information shown is based on profiles of compositionally similar materials.                                                                                    |

**COMPONENTS INFLUENCING TOXICOLOGY:****ACRYLIC POLYMER(S)****Sensitization**

|                                                                     |                                                                                                |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>For skin sensitization:</b>                                      | No relevant data found.                                                                        |
| <b>For respiratory sensitization:</b>                               | No relevant data found.                                                                        |
| <b>Specific Target Organ Systemic Toxicity (Single Exposure):</b>   | The substance or mixture is not classified as specific target organ toxicant, single exposure. |
| <b>Specific Target Organ Systemic Toxicity (Repeated Exposure):</b> | No relevant data found.                                                                        |
| <b>Carcinogenicity:</b>                                             | No relevant data found.                                                                        |

|                                                                     |                                                                                                                                           |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Teratogenicity:</b>                                              | No relevant data found.                                                                                                                   |
| <b>Reproductive toxicity:</b>                                       | No relevant data found.                                                                                                                   |
| <b>Mutagenicity:</b>                                                | No relevant data found.                                                                                                                   |
| <b>Aspiration Hazard:</b>                                           | No aspiration toxicity classification.                                                                                                    |
| <b><u>RESIDUAL MONOMERS</u></b>                                     |                                                                                                                                           |
| <b>Sensitization</b>                                                |                                                                                                                                           |
| <b>For skin sensitization:</b>                                      | Did not cause allergic skin reactions when tested in guinea pigs. Did not cause allergic skin reactions when tested in humans.            |
| <b>For respiratory sensitization:</b>                               | No relevant data found.                                                                                                                   |
| <b>Specific Target Organ Systemic Toxicity (Single Exposure):</b>   | May cause respiratory irritation.                                                                                                         |
| <b>Route of Exposure:</b>                                           | Inhalation                                                                                                                                |
| <b>Target Organs:</b>                                               | Respiratory Tract                                                                                                                         |
| <b>Specific Target Organ Systemic Toxicity (Repeated Exposure):</b> | Repeated excessive exposures may cause Respiratory effects.                                                                               |
| <b>Carcinogenicity:</b>                                             | Did not cause cancer in laboratory animals.                                                                                               |
| <b>Teratogenicity:</b>                                              | Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.                         |
| <b>Reproductive toxicity:</b>                                       | In animal studies, did not interfere with reproduction. In animal studies, did not interfere with fertility.                              |
| <b>Mutagenicity:</b>                                                | In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative. |
| <b>Aspiration Hazard:</b>                                           | Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.                                   |

**AQUA AMMONIA**

|                                                                     |                                                                                                                  |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Sensitization</b>                                                |                                                                                                                  |
| <b>For skin sensitization:</b>                                      | No relevant data found.                                                                                          |
| <b>For respiratory sensitization:</b>                               | No relevant data found.                                                                                          |
| <b>Specific Target Organ Systemic Toxicity (Repeated Exposure):</b> | Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects. |
| <b>Carcinogenicity:</b>                                             | Did not cause cancer in laboratory animals.                                                                      |
| <b>Teratogenicity:</b>                                              | Available data are inadequate for evaluation of potential to cause fetotoxicity.                                 |
| <b>Reproductive toxicity:</b>                                       | Available data are inadequate to determine effects on reproduction.                                              |
| <b>Mutagenicity:</b>                                                | In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.                  |
| <b>Aspiration hazard:</b>                                           | Based on physical properties, not likely to be an aspiration hazard.                                             |

**DIPHENYL KETONE**

|                                |                                                                   |
|--------------------------------|-------------------------------------------------------------------|
| <b>Sensitization</b>           |                                                                   |
| <b>For skin sensitization:</b> | Did not cause allergic skin reactions when tested in guinea pigs. |

|                                                                   |                                                                                                                                    |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>For respiratory sensitization:</b>                             | No relevant data found.                                                                                                            |
| <b>Specific Target Organ Systemic Toxicity (Single Exposure):</b> | In animals, effects have been reported on the following organs:<br>Blood, Kidney, Liver, Bone Marrow                               |
| <b>Carcinogenicity:</b>                                           | Has caused cancer in laboratory animals. However, the relevance of this to humans is unknown.                                      |
| <b>Teratogenicity:</b>                                            | Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals. |
| <b>Reproductive toxicity:</b>                                     | In animal studies, did not interfere with reproduction. In animal studies, did not interfere with fertility.                       |
| <b>Mutagenicity</b>                                               | In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.                                    |
| <b>Aspiration Hazard:</b>                                         | Based on physical properties, not likely to be an aspiration hazard.                                                               |

## Carcinogenicity

| Component       | List | Classification                            |
|-----------------|------|-------------------------------------------|
| Diphenyl Ketone | IARC | Group 2B: Possibly carcinogenic to humans |

## SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

**General Information:** There is no data available for this product.

## TOXICITY

### Acrylic polymer(s)

**Acute toxicity to fish:** No relevant data found.

### Residual monomers

|                                                   |                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute toxicity to fish:</b>                    | No relevant data found.<br>Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).<br>LC50, Oncorhynchus mykiss (rainbow trout), flow-through test, 96 Hour, 85 mg/l, OECD Test Guideline 203 or Equivalent |
| <b>Acute toxicity to aquatic invertebrates:</b>   | EC50, Daphnia magna (Water flea), flow-through test, 48 Hour, > 130 mg/l                                                                                                                                                                                                                        |
| <b>Acute toxicity to algae/aquatic plants:</b>    | ErC50, Scenedesmus capricornutum (fresh water algae), static test, 72 Hour, Growth rate, 45 mg/l, OECD Test Guideline 201 or Equivalent                                                                                                                                                         |
| <b>Toxicity to bacteria:</b>                      | EC50, Pseudomonas putida, static test, 17 Hour, Respiration rates. , 100 mg/l                                                                                                                                                                                                                   |
| <b>Chronic toxicity to fish:</b>                  | NOEC, Danio rerio (zebra fish), flow-through test, 35 d, number of offspring, 10 mg/l                                                                                                                                                                                                           |
| <b>Chronic toxicity to aquatic invertebrates:</b> | NOEC, Daphnia magna (Water flea), flow-through test, 21 d, number of offspring, 53 mg/l                                                                                                                                                                                                         |

### Aqua ammonia

|                                                   |                                                                                                                                                                         |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute toxicity to fish:</b>                    | Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested). LC50, Fish, 96 Hour, 0.89 mg/l |
| <b>Acute toxicity to aquatic invertebrates:</b>   | LC50, Daphnia magna (Water flea), static test, 48 Hour, 101 mg/l                                                                                                        |
| <b>Acute toxicity to algae/aquatic plants:</b>    | Based on data from similar materials EC50, Chlorella vulgaris (Fresh water algae), 18 d, 2,700 mg/l                                                                     |
| <b>Chronic toxicity to fish:</b>                  | Based on data from similar materials LOEC, Oncorhynchus mykiss (rainbow trout), 33 d, ≤ 0.05 mg/l                                                                       |
| <b>Chronic toxicity to aquatic invertebrates:</b> | Based on data from similar materials NOEC, Daphnia magna (Water flea), 21 d, 0.42 mg/l                                                                                  |

### **Diphenyl Ketone**

|                                                   |                                                                                                                                                                                                                                  |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute toxicity to fish:</b>                    | Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested). LC50, Fathead minnow (Pimephales promelas), 96 Hour, 14.7 mg/l, Method Not Specified |
| <b>Acute toxicity to aquatic invertebrates:</b>   | EC50, ceriodaphnia dubia (water flea), 48 Hour, 7.6 mg/l, Method Not Specified. EC50, Daphnia magna (Water flea), 48 Hour, 6.784 mg/l, OECD Test Guideline 202                                                                   |
| <b>Acute toxicity to algae/aquatic plants:</b>    | EC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate, 3.5 mg/l, OECD Test Guideline 201, NOEC, Pseudokirchneriella subcapitata (green algae), 72 Hour, 1 mg/l, OECD Test Guideline 201                      |
| <b>Toxicity to bacteria:</b>                      | NOEC, 3 Hour, 31.6 mg/l, OECD Test Guideline 209                                                                                                                                                                                 |
| <b>Chronic toxicity to fish:</b>                  | NOEC, Pimephales promelas (fathead minnow), 7 d, 5.86 mg/l                                                                                                                                                                       |
| <b>Chronic toxicity to aquatic invertebrates:</b> | NOEC, Daphnia (water flea), 21 d, 0.20 mg/l                                                                                                                                                                                      |

### **PERSISTENCE AND DEGRADABILITY**

#### **Acrylic polymer(s)**

**Biodegradability:** No relevant data found.

#### **Residual monomers**

**Biodegradability:** No relevant data found.  
 Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.  
 10-day Window: Pass  
 Biodegradation: 86 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301 D or Equivalent

**Photodegradation:** Test Type: Half-life (indirect photolysis)  
 Sensitization: OH radicals  
 Atmospheric half-life: 6.884 Hour  
 Method: Estimated.

**Photodegradation:**

Test Type: Half-life (indirect photolysis)

Sensitization: Ozone.

Atmospheric half-life: 1.007 d

Method: Estimated.

**Aqua ammonia****Biodegradability:**

Material is expected to be readily biodegradable. Biodegradation may occur under aerobic conditions (in the presence of oxygen).

**Theoretical Oxygen Demand:**

3.76 mg/mg Estimated.

**Diphenyl Ketone****Biodegradability:**Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.  
10-day Window: Pass**Biodegradation:**

66 - 84 %

**Exposure time:**

28 d

**Method:**

OECD Test Guideline 301 F

**Theoretical Oxygen Demand:**

2.63 mg/mg

**Photodegradation:**

Test Type: Half-life (indirect photolysis)

Sensitization: OH radicals

Atmospheric half-life: 3.009 d

Method: Estimated.

**BIOACCUMULATIVE POTENTIAL****Acrylic polymer(s)****Bioaccumulation:**

No relevant data found.

**Residual monomers****Bioaccumulation:**

No relevant data found. No bioconcentration is expected because of the relatively high water solubility.

**Partition coefficient:**

n-octanol/water(log POW): 0.93 Measured

**Bioconcentration factor (BCF):**

3.16 Fish Estimated.

**Aqua ammonia****Bioaccumulation:**

Partitioning from water to n-octanol is not applicable.

**Diphenyl Ketone****Bioaccumulation:**

Bioconcentration potential is low (BCF &lt; 100 or Log Pow &lt; 3).

**Partition coefficient:**

n-octanol/water(log POW): 3.18 Measured

**Bioconcentration factor (BCF):**

3.4 - 9.2 Cyprinus carpio (Carp) 42 d

**Measured Bioconcentration factor (BCF):** 3.4 12 Oryzias latipes (Orange-red killifish) 42 d Measured

#### **MOBILITY IN SOIL**

**Acrylic polymer(s):** No relevant data found.

**Residual monomers:** No relevant data found.  
Potential for mobility in soil is very high (Koc between 0 and 50). Partition coefficient (Koc): 15

**Aqua ammonia:** No specific, relevant data available for assessment.

**Diphenyl Ketone:** Potential for mobility in soil is medium (Koc between 150 and 500).  
Partition coefficient (Koc): 430 Measured

#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

**Disposal methods:** Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations.

**Contaminated packaging:** Empty containers retain product residues. Follow label warnings even after container is emptied. Improper disposal or reuse of this container may be dangerous and illegal. Refer to applicable federal, state and local regulations.

#### **SECTION 14 - TRANSPORT INFORMATION**

**DOT:** Not regulated for transport

**Classification for SEA transport (IMO-IMDG):** Not regulated for transport  
Transport in bulk Consult IMO regulations before transporting ocean bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code

**Classification for AIR transport (IATA/ICAO):** Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

#### **SECTION 15 - REGULATORY INFORMATION**

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312  
No SARA Hazards

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA)  
Section 103

Calculated RQ exceeds reasonably attainable upper limit.

**Components****Aqua ammonia**

CASRN

1336-21-6

RQ (RCRA code)

100 lbs RQ

**Pennsylvania**

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2,

Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

**California Prop. 65**

WARNING: This product can expose you to chemicals including Diphenyl Ketone, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**United States TSCA Inventory (TSCA)**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**SECTION 16 - OTHER INFORMATION****Hazard Rating System**

HMIS

| Health | Flammability | Physical Hazard |
|--------|--------------|-----------------|
| 1      |              |                 |

**Revision**

Identification Number: 10078705 / 1001 / Issue Date: 08/29/2018 / Version: 5.2

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

**Le end**

|          |                                                                                  |
|----------|----------------------------------------------------------------------------------|
| ACGIH    | USA. ACGIH Threshold Limit Values TLV)                                           |
| Dow IHG  | Dow Industrial Hygiene Guideline                                                 |
| OSHA Z-1 | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| SKIN     | Absorbed via skin                                                                |
| STEL     | Short term exposure limit                                                        |
| TWA      | Time weighted average                                                            |
| US WEEL  | USA. Work Place Environmental Exposure Levels WEEL                               |

**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT Self-Accelerating Decomposition Temperature; SARA Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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