## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier
Product Name: TRS Plus
:Product Number
Recommended Use: Concrete & Tile Sealer
Uses Advised Against: For Industrial and Institutional Use Only

.Manufacturer/Supplier: Innovative Aqua Systems, Inc.
E. Linger Lane 1930
Phoenix, AZ 85020
602-705-9240

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**

Appearance: liquid, white

CAUTION! MAY BE HARMFUL IF INHALED. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION.

**Potential Health Effects**

**Exposure routes**
Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

**Eye contact**
Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

**Skin contact**
Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage.

**Ingestion**

Swallowing this material may be harmful.

**Inhalation**

Breathing of vapor or mist is possible. Breathing this material may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.). It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring).

**Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, Eyes, lung (for example, asthma-like conditions)

**Symptoms**

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)

**Target Organs**

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, Skin, Eyes, Lungs, mild, reversible kidney effects, liver abnormalities

**Carcinogenicity**

This material (or a component) may cause cancer in humans. In a study conducted by the National Toxicology Program, di(2-ethylhexyl)adipate caused liver tumors in female mice when fed to the animals for two years. There was an increase in tumors in male mice, however it was not clearly related to di(2-ethylhexyl)adipate exposure. It did not cause an increase in tumors in either male or female rats in this same study. The relevance of this study to humans is uncertain. There is no evidence that this chemical causes cancer in humans. Di(2-ethylhexyl)adipate is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA). Acetaldehyde causes cancer in laboratory animals and therefore may present a carcinogenic risk to humans. Acetaldehyde is listed as a carcinogen by the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP).

**Reproductive hazard**

This material (or a component) has been shown to cause birth defects in laboratory animal studies. The relevance of these findings to humans is uncertain.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components | CAS-No. / trade secret no. | Concentration |
|---|---|---|
| Silane, triethoxyoctyl- | 2943-75-1 | 1 - 5% |
| Diethylhexyl adipate | 103-23-1 | 1 - 5% |

## 4. FIRST AID MEASURES

**General Information**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**Eyes**

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

**Skin**

First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water. If symptoms persist, call a physician.

**Ingestion**

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

**Inhalation**

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

**Notes to physician**

**Hazards:** No information available.

**Treatment:** No information available.

## 5. FIREFIGHTING MEASURES

**Suitable extinguishing media**

Dry chemical, Carbon dioxide (CO2), Water spray

**Hazardous combustion products**

May form:, Hydrocarbons, Carbon oxides, formaldehyde, methylacrylate, organic compounds, silicon oxides

**Precautions for fire-fighting**

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

**NFPA Flammable and Combustible Liquids Classification**

Combustible Liquid Class IIIB

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

**Environmental precautions**

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up**

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**Other information**

Comply with all applicable federal, state, and local regulations.

## 7. HANDLING AND STORAGE

**Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

**Storage**

Store in a cool, dry, ventilated area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

Contains no substances with occupational exposure limit values.

**General advice**

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

**Exposure controls**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

**Eye protection**

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

**Skin and body protection**

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.
Wear resistant gloves (consult your safety equipment supplier).
Discard gloves that show tears, pinholes, or signs of wear.

**Respiratory protection**

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Physical state** | liquid |
| **Form** | cream |
| **Colour** | white |
| **Boiling point/boiling range** | 212 °F / 100 °C Calculated Phase Transition Liquid/Gas |
| **Flash point** | (>)212 °F / 100 °C |
| **Vapour pressure** | 23.333 hPa @ 68 °F / 20 °C Calculated Vapor |

| | |
|---|---|
| | Pressure |
| **Density** | (Approximate) 0.996 g/cm3 @ 68 °F / 20 °C |

## 10. STABILITY AND REACTIVITY

**Stability**
Stable.

**Conditions to avoid**
None known.

**Incompatible products**
Avoid contact with:, Alcohols, Acids, Bases, Metals, Strong oxidizing agents

**Hazardous decomposition products**
May form:, Hydrocarbons, Carbon oxides, formaldehyde, organic compounds, methylacrylate, silicon oxides

**Hazardous reactions**
Product will not undergo hazardous polymerization.

## 11. TOXICOLOGICAL INFORMATION

**Acute oral toxicity**

| | |
|---|---|
| Acute oral toxicity - Product | : no data available |

Acute oral toxicity - Components

| | |
|---|---|
| Diethylhexyl adipate | : LD50: 9,100 mg/kg Species: rat |

**Acute inhalation toxicity**

| | |
|---|---|
| Acute inhalation toxicity - Product | : no data available |

Acute inhalation toxicity - Components

| | |
|---|---|
| Diethylhexyl adipate | : LC50: > 5.7 mg/l Exposure time: 4 h Species: rat Method: OECD Test Guideline 403 Symptoms: Respiratory disorder |

**Acute dermal toxicity**

| | |
|---|---|
| Acute dermal toxicity - Product | : no data available |

Acute dermal toxicity - Components

| | |
|---|---|
| Diethylhexyl adipate | : LD50: 14,800 mg/kg Species: rabbit |

**Acute toxicity (other routes of administration)**

| | |
|---|---|
| Acute toxicity (other routes of administration) | : no data available |

## 12. ECOLOGICAL INFORMATION

**Biodegradability**

| | |
|---|---|
| Biodegradability - Product | : no data available |

Biodegradability - Components

| | |
|---|---|
| Diethylhexyl adipate | : Result: Readily biodegradable. 66 % Method: OECD Test Guideline 302C |

**Bioaccumulation**

| | |
|---|---|
| Bioaccumulation - Product | : no data available |

Bioaccumulation - Components

| | | |
|---|---|---|
| Diethylhexyl adipate | : | Species: Lepomis macrochirus (Bluegill sunfish) Exposure time: 28 d Bioconcentration factor (BCF): 27 |

## Ecotoxicity effects

**Toxicity to fish**

Toxicity to fish - Product : no data available

Toxicity to fish - Components

| | | |
|---|---|---|
| Diethylhexyl adipate | : | LC50: 0.78 mg/l<br>Exposure time: 96 h<br>Species: Pimephales promelas (fathead minnow) |

**Toxicity to daphnia and other aquatic invertebrates**

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates - Product | : | no data available |

Toxicity to daphnia and other aquatic invertebrates - Components

| | | |
|---|---|---|
| Diethylhexyl adipate | : | 0.66 mg/l<br>Exposure time: 48 h<br>Species: Daphnia magna (Water flea) |

**Toxicity to algae**

| | | |
|---|---|---|
| Toxicity to algae - Product | : | no data available |

Toxicity to algae - Components

| | | |
|---|---|---|
| Diethylhexyl adipate | : | LC50: 0.78 mg/l<br>Exposure time: 96 h<br>Species: Pseudokirchneriella subcapitata (green algae) |

**Toxicity to bacteria**

| | |
|---|---|
| Toxicity to bacteria - Product | : no data available |

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal methods**

Dispose of in accordance with all applicable local, state and federal regulations.For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

## 14. TRANSPORT INFORMATION

**REGULATION**

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / LTD. QTY. |
|---|---|---|---|---|---|

**U.S. DOT - ROAD**

Not dangerous goods

**U.S. DOT - RAIL**

Not dangerous goods

**U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

**TRANSPORT CANADA - ROAD**

Not dangerous goods

**TRANSPORT CANADA - RAIL**

Not dangerous goods

**TRANSPORT CANADA - INLAND WATERWAYS**

Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

Not dangerous goods

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## 15. REGULATORY INFORMATION

**California Prop. 65**

| | |
|---|---|
| WARNING! This product contains a chemical known to the State of California to cause cancer. | Acetaldehyde<br>Ethylene oxide |
| WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. | Benzene, (1-methylethenyl)-<br>Ethylene oxide |

**SARA Hazard Classification**

**SARA 311/312 Classification**

| |
|---|
| Chronic Health Hazard |

**SARA 313 Component(s)**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**New Jersey RTK Label Information**

| | |
|---|---|
| Diethylhexyl adipate | 103-23-1 |
| Vinyl acetate | 108-05-4 |
| 2-Butenal | 4170-30-3 |
| Acetaldehyde | 75-07-0 |
| Benzene, (1-methylethenyl)- | 98-83-9 |
| Ethylene oxide | 75-21-8 |

**Pennsylvania RTK Label Information**

| | |
|---|---|
| Diethylhexyl adipate | 103-23-1 |
| Vinyl acetate | 108-05-4 |
| 2-Butenal | 4170-30-3 |
| Acetaldehyde | 75-07-0 |
| Benzene, (1-methylethenyl)- | 98-83-9 |
| Ethylene oxide | 75-21-8 |

**Notification status**

| | |
|---|---|
| United States TSCA Inventory | y (positive listing) |
| Canadian Domestic Substances List (DSL) | y (positive listing) |

**Reportable quantity-Components**

| | | |
|---|---|---|
| 2-Butenal | 4170-30-3 | 100 lbs |
| 2-Butenal | 4170-30-3 | 100 lbs |
| 2-Butenal | 4170-30-3 | 100 lbs |

| | HMIS | NFPA |
|---|---|---|

| | | |
|---|---|---|
| Health | 1* | 1 |
| Flammability | 1 | 1 |
| Physical hazards | 0 | |
| Instability | | 0 |
| Specific Hazard | -- | -- |

## 16. OTHER INFORMATION

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.