

Rustoscale Custom 44

SDS Number: 0139

Revision Date: 4/30/2020

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Alliance Group Inc. 262-251-4977
N114 W18621 Clinton Drive
Germantown, WI 53022

Phone: 800-255-3924

Emergency: CHEMTEL

Product Identifier: Rustoscale Custom 44
SDS Number: 0139
Revision Date: 4/30/2020
Product Use: Water Treatment Compound

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Corrosive to Metals, 1
Health, Acute toxicity, 4 Oral
Health, Serious Eye Damage/Eye Irritation, 1
Health, Acute toxicity, 4 Inhalation
Environmental, Hazards to the aquatic environment - Chronic, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H290 - May be corrosive to metals
H302 - Harmful if swallowed
H318 - Causes serious eye damage
H332 - Harmful if inhaled
H412 - Harmful to aquatic life with long lasting effects

GHS Precautionary Statements:

P234 - Keep only in original container.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+312+P330 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth
P304+340+312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call POISON CENTER or doctor/physician if symptoms persist.
P305+351+338+310 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call POISON CENTER or doctor/physician.
P501 - Dispose of contents/container to an approved waste disposal plant.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry: Eyes; Inhalation; Ingestion; Skin.

Target Organs: Respiratory system; Eyes; Skin;



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| Inhalation: | Can cause irritation. Mists may irritate the nose, throat, lungs. May cause inflammation of the respiratory tract. |
| Skin Contact: | May cause irritation, burning of skin. |
| Eye Contact: | Causes severe irritation and burns. |
| Ingestion: | May be corrosive to the gastrointestinal tract. Severe irritation and burns may result. |

HMIS III: Health = 3(Chronic), Fire = 0, Physical Hazard = 0

| HMIS | | |
|---------------------|-------------------------------------|---|
| HEALTH | <input checked="" type="checkbox"/> | 3 |
| FLAMMABILITY | | 0 |
| PHYSICAL HAZARD | | 0 |
| PERSONAL PROTECTION | <input type="checkbox"/> | |

3 COMPOSITION/INFORMATION OF INGREDIENTS

Substance/Mixture: Mixture

| Chemical Ingredients: | | |
|-----------------------|-------|-------------------------------|
| CAS# | % | Chemical Name: |
| 68915-31-1 | 8-10% | Monosodium Phosphate |
| 2809-21-4 | 3-5% | 1 Disphosphonic Acid |
| 15217-42-2 | 1-2% | 1H-Benzotriazole, sodium salt |
| 10124-56-8 | <5% | Sodium Hexametaphosphate |

4 FIRST AID MEASURES

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| Inhalation: | If symptoms develop, move victim to fresh air. If not breathing, give oxygen or artificial respiration. Consult a physician. |
| Skin Contact: | Promptly flush skin with water for 15 minutes. Wash with soap and water. Remove contaminated clothing immediately. Consult a physician if skin irritation develops. |
| Eye Contact: | Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get immediate medical attention. Continue rinsing eyes during transport to hospital. |
| Ingestion: | If swallowed: If fully conscious, drink a quart of water. Do NOT induce vomiting. Seek immediate medical attention. If unconscious, take to a hospital or physician. Never induce vomiting or give anything by mouth to an unconscious victim. For spontaneous vomiting, keep head below hips. |

Protection of First Aid Personnel:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. If it is suspected that dust, vapor, or gas are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

5 FIRE FIGHTING MEASURES

Flammability: No data available.



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| Flash Point: | Not Applicable |
| Flash Point Method: | Not Applicable |
| Burning Rate: | No data available. |
| Autoignition Temp: | No data available. |
| LEL: | No data available. |
| UEL: | No data available. |

Fire Fighting Methods

Evacuate area of unprotected personal. Wear protective clothing including NIOSH Approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire exposed containers.

Unusual Fire or Explosion Hazards: None Known

Extinguishing Media

Suitable: Use water spray, alcohol foam, carbon dioxide, dry chemical for fire extinction.

Unsuitable fire extinguisher: None known

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ACCIDENTAL RELEASE MEASURES

Personal Precautions

Evacuate personnel to safe areas. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Never exceed any occupational exposure limits.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let products enter drains. Discharge into the environment must be avoided.

Spill

Contain spill; soak up with inert absorbent material. Keep in suitable, closed containers for hazmat disposal. Flush remaining area with water to remove trace residue.

7

HANDLING AND STORAGE

| | |
|------------------------------|---|
| Handling Precautions: | Wash thoroughly after handling. Avoid contact with eyes, skin, or clothing. Use with adequate ventilation. Avoid breathing vapors or mist. Do not eat or drink in work area. |
| Storage Requirements: | CORROSIVE MATERIAL. Store in cool/dry area. Keep away from direct sunlight and heat sources. Keep away from incompatible materials. Keep container tightly closed. Do not store in unlabeled or mislabeled containers. Do not freeze. Do not store in mild steel, carbon steel, aluminum or other metals. |

8

EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|---------------------------------------|--|
| Engineering Controls: | Provide local exhaust ventilation. Maintain adequate ventilation. Do not use in closed or confined spaces. |
| Personal Protective Equipment: | Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Respiratory Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air |



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respirator.

Eyes and Face

Wear chemical safety goggles while handling this product. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid or airborne material.

Skin

Prevent contact with this product. Wear gloves and protective clothing depending on conditions of use.

Protective gloves: gauntlet-type, neoprene, nitrile.

| Component | OSHA PEL | ACGIH TWA/ TLV |
|--|--------------------|---------------------|
| Monosodium Phosphate | No data available. | No data available.. |
| Sodium Hexametaphosphate | No data available. | No data available. |
| 1-Hydroxyethylidene-1,1 Disphosphonic Acid | No data available. | No data available. |
| Benzotriazole | No data available. | No data available. |

9**PHYSICAL AND CHEMICAL PROPERTIES**

| | | | |
|---------------------------------------|----------------------------|------------------------------|--------------------|
| Appearance: | Clear, light yellow liquid | Odor: | Mild odor. |
| Physical State: | Liquid | Molecular Formula: | No data available. |
| Odor Threshold: | No data available. | Solubility: | Dispersible |
| Particle Size: | No data available. | Softening Point: | No data available. |
| Spec Grav./Density: | 1.120 @ 25 C | Percent Volatile: | No data available. |
| Viscosity: | No data available. | Heat Value: | No data available. |
| Saturated Vapor Concentration: | No data available. | Freezing/Melting Pt.: | 32 °F |
| Boiling Point: | No data available. | Flash Point: | No data available. |
| Flammability: | No data available. | Octanol: | No data available. |
| Partition Coefficient: | No data available. | Vapor Density: | No data available. |
| Vapor Pressure: | No data available. | VOC: | No data available. |
| pH: | 2.8 | Bulk Density: | No data available. |
| Evap. Rate: | No data available. | Auto-Ignition Temp: | No data available. |
| Molecular weight: | No data available. | UFL/LFL: | No data available. |
| Decomp Temp: | No data available. | | |

10**STABILITY AND REACTIVITY**

| | |
|----------------------------------|---|
| Reactivity: | No data available. |
| Chemical Stability: | Product is stable under normal conditions. |
| Conditions to Avoid: | Avoid extreme temperatures. Avoid freezing. |
| Materials to Avoid: | Metals. Strong Oxidizing Agents. Strong Bases. Sodium Hypochlorite. |
| Hazardous Decomposition: | Phosphorus oxides, carbon oxides, acids of phosphorus, sodium oxides, hydrocarbons, acrylate monomers, irritating vapors, nitrogen oxides. Hydrogen cyanide possible in reducing atmospheres. |
| Hazardous Polymerization: | Will not occur under normal conditions. |

11**TOXICOLOGICAL INFORMATION****Toxicity Data:**

Eye Effects: Corrosive- Causes severe eye irritation and burns. May cause redness, pain, permanent eye damage, blindness.



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- » Monosodium Phosphate Eyes: No data available
- » Sodium Hexametaphosphate Eyes - Rabbit = mild eye irritation
- » 1-Hydroxyethylidene-1
1 Disphosphonic Acid Eyes: No data available
- » Benzotriazole Eyes: No data available

Skin Effects: May be corrosive to the skin. Concentrated solutions may cause: severe burns, permanent skin damage. Prolonged and repeated exposure to dilute solutions may cause irritation, drying and cracking of the skin.

- » Monosodium Phosphate Dermal LD50: No data available
Skin corrosion/irritation = no data available
- » Sodium Hexametaphosphate Dermal LD50- Rabbit = >7940 mg/kg
Skin corrosion/irritation - Rabbit - no skin irritation - 24H
- » 1-Hydroxyethylidene-1
1 Disphosphonic Acid Dermal LD50: No data available
Skin corrosion/irritation = no data available
- » Benzotriazole Dermal LD50 - Rabbit = 1000 mg/kg
Skin corrosion/ irritation- Rabbit - no skin irritation - 24H

Inhalation Effects: May cause severe irritation. Mists may irritate the nose, throat, lungs. Effects will depend on concentration and length of time of exposure. Overexposure to aerosol, vapor or mists may cause - dizziness, headache, nausea.

- » Monosodium Phosphate Inhalation LC50: No data available
- » Sodium Hexametaphosphate Inhalation LC50: no data available
- » 1-Hydroxyethylidene-1
1 Disphosphonic Acid Inhalation LC50: No data available
- » Benzotriazole Inhalation LC50 - Rat = 1.4 mg/L- 4H

Ingestion Effects: May cause burns to the: mouth, throat, esophagus, stomach, gastrointestinal tract. May cause: pain, vomiting, diarrhea, bleeding, labored breathing, burns or perforation of the gastrointestinal tract. Effects may be delayed. Large amounts may cause decreased blood pressure, lethargy, decreased heart rate, coma.

- » Monosodium Phosphate Oral LD50: No data available
- » Sodium Hexametaphosphate Oral LD50: Rat = 3053 mg/kg
- » 1-Hydroxyethylidene-1
1 Disphosphonic Acid Oral LD50: No data available
- » Benzotriazole Oral LD50 - Rat = 560 mg/kg

Carcinogenicity:

- » Benzotriazole- rat=oral
Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Brain and Coverings: Tumors.

Mutagenicity:

- » Benzotriazole- Germ Cell mutagenicity: rat- embryo- morphological transformation.

Teratogenicity: No data available.

Fertility Effects: No data available.

12**ECOLOGICAL INFORMATION**

Biodegradability = No data available.

Ecotoxicity Toxicity to fish:

LC50- Lepomis macrochirus (Bluegill) - 22 mg/L- 96 hr (Benzotriazole)

Toxicity to aquatic invertebrates:

EC50- Daphnia magna (Water flea) - 91 mg/L- 48 hr (Benzotriazole)

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

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13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied.

RCRA: No component of this product is listed as a hazardous waste.

14 TRANSPORT INFORMATION

UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, PGIII, (1-Hydroxyethylidene-1, 1 Disphosphonic Acid)

Resp. Guide Page: 60



15 REGULATORY INFORMATION

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

FEDERAL REGULATIONS

TSCA Inventory Status: All components of this product are listed as "Active" on the Toxic Substances Control Act (TSCA) 8 (b) Inventory.

» Except for Monosodium Phosphate (CAS# 10049-21-5)

CERCLA / SARA Emergency Reporting: A spill or release of this material may trigger the emergency release reporting requirements under CERCLA (40 CFR Part 300) and/or SARA Title III (40 CFR Part 355). State or local reporting requirements may differ from federal requirements.

No product requires reporting.

SARA Title III Section 313: **This product does not require reporting.**

Clean Water Act (CWA): The following chemicals are listed under Section 311 as hazardous substances requiring the submission of a National Pollutant Discharge Elimination System (NPDES) permit application to EPA. » **No component listed**

STATE REGULATIONS

California- The following components are listed under Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer.

Massachusetts - RTK Substances: The following components are listed: Benzotriazole (CAS #15217-42-2)



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New Jersey - RTK Substances: The following components are listed: Monosodium Phosphate (CAS# 10049-21-5), Sodium Hexametaphosphate (CAS# 68915-31-1), 1-Hydroxethylidene-1, 1 Disphosphonic Acid (CAS# 2809-21-4), Benzotriazole (CAS# 15217-42-2)

Pennsylvania - RTK Substances: The following components are listed: Monosodium Phosphate (CAS# 10049-21-5), Sodium Hexametaphosphate (CAS# 68915-31-1), 1-Hydroxethylidene-1, 1 Disphosphonic Acid (CAS# 2809-21-4), Benzotriazole (CAS# 15217-42-2)

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OTHER INFORMATION

Prepared By: P May

Reason For Revision: Updated GHS & Regulatory Information

Disclaimer:

This information is given in good faith and based on our current knowledge of the product. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

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