SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

| Product Name(s) | pH Max | |
|--|------------------------|--|
| Product Code(s): | Not available. | |
| Uses: | For agricultural use. | |
| Company: | EST Inc/Max Systems L | LC |
| Address: | 15785 South Keeler Ter | race Olathe KS 66062: USA |
| Telephone Number: | (913) 764-4900 | Fax Number:(913) 764-4901 Not available. |
| Emergency Telephone Number: 1-800 222-1222 | | |

Date Issued- June15, 2018

Date Revised- June 15, 2018

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May 2012 (GHS). It may not meet requirements in other countries.



SECTION 2 HAZARDS IDENTIFICATION

| GHS Signal Word: | None. | |
|---|--|--|
| GHS Classification: | Not classified as hazardous | |
| GHS Hazard Statements: | None. | |
| GHS | Prevention: | Response: |
| Precautionary | None. | None. |
| Statements: | Storage: | <u>Disposal:</u> |
| | None. | None. |
| Hazards Not Otherwise Classified: | None. | |
| GHS | Approximately 0% of this mixture consists of | ingredient(s) of unknown acute toxicity. |

Approximately 0% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

Assessment:

SECTION 3 COMPOSITION / INGREDIENTSComponentCAS NumberEC NumberConcentrationHydrogen Hydroxide7732-18-5231-791-250% - 70.0%Organic Salt Nano Bond FusionProprietary---50% - 70.0%

Other components are either non-hazardous or do not significantly contribute to the hazards of the product. Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

| First Aid - Eyes: | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention, if irritation develops. |
|---|--|
| First Aid - Skin: | In case of contact, flush skin with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention immediately if irritation develops and/or persists. Wash contaminated clothing before reuse. |
| First Aid - Ingestion: | If swallowed and feel unwell, call a physician or poison control center. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. |
| First Aid - Inhalation: | If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention. |
| Important Symptoms / Effects – Acute and Delayed: | Mild tissue inflammation. |

Advice to Physician: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

| Extinguishing Media: | Treat surrounding material. Water spray, dry chemical, carbon dioxide, or foam is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. | |
|---|---|--|
| Specific Hazards: | This product is not flammable. This product may give rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive and/or toxic. | |
| Protective equipment and procedures for fire-fighters. | Wear full protective clothing and self-contained breathing apparatus. | |

SECTION 6 ACCIDENTAL RELEASE MEASURES

| Additional Advice: | None. |
|----------------------------|---|
| Spill Procedures: | Small spills: Wipe up spills with an absorbent towel/material and transfer into suitable containers for recovery or disposal. Finally, flush area with water/soap or an appropriate solvent, as this product is not appreciably soluble in water alone. Large spills: Contain spilled material if possible. Pump into suitable and properly labeled containers. |
| Personal Precautions: | Wear suitable protective clothing and equipment. |
| Environmental Precautions: | Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation. |

SECTION 7 HANDLING AND STORAGE

| Handling: | Wear appropriate personal protection (See Section 8) when handling this material. The work area should be equipped with a safety shower and eye wash station. If exposed to the liquid, avoid contact with skin and eyes. Wash thoroughly after handling. |
|--------------------|---|
| Storage: | Keep container(s) tightly closed. Use and store this material at room temperature away from heat, direct sunlight and hot metal surfaces. Keep away from any incompatible materials (see Section 10). |
| Additional Advice: | Store in original container. Store as directed by the manufacturer. |
| | |

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

| Occupational Exposure Standards: | Exposure limits are listed below, if they exist. |
|-------------------------------------|---|
| Water: | None. |
| Organic salt: | None. |
| Engineering Control Measures: | Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions. |
| Respiratory Protection: | A NIOSH certified self-contained breathing apparatus or airpurifying respirator may be used under conditions where airborne concentrations are expected to exceed exposure limits. |
| Hand Protection: | The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation and skin damage (see glove manufacturer literature for information on permeability). |
| Eye Protection: | Approved eye protection (safety glasses with side-shields or goggles) to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary. |
| Body Protection: | Impervious clothing should be worn as needed to prevent skin contact. |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| Physical State: | Liquid |
|---|--------------------------|
| Color: | Clear |
| Odor: | None |
| Odor Threshold: | Not available. |
| pH: | NA |
| Melting Point/Range (°C/°F): | Not available. |
| Boiling Point/Range (°C/°F): | ca. 100°C / 212°F |
| Flash Point (PMCC) (°C/°F): | Not flammable |
| Evaporation Rate: | Not available. |
| Flammability / Explosivity Limits in Air (%): | Not available. |
| Vapor Pressure: | 23.8 mmHg (25ºC) (water) |
| Vapor Density (Air = 1): | Not available. |
| Freezing Point | <-27 F (-32 C) |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| Solubility in Water: | Completely soluble |
|---------------------------------------|-----------------------------------|
| Partition Coefficient: | Not available. |
| Autoignition Temperature (°C/°F): | Not available. |
| Decomposition Temperature (°C/°F): | Not available. |
| Viscosity: | Not available. |
| Explosive Properties: | None. |
| Oxidizing Properties: | None. |
| Volatile Organic Content (VOC) (g/l): | 0 g/l (as defined by 40CFR51.100) |

SECTION 10 STABILITY AND REACTIVITY

| Reactivity: | Product will not undergo additional reaction. |
|--------------------------------------|--|
| Stability: | Stable under normal storage conditions. |
| Hazardous Polymerization: | Will not occur. |
| Conditions to Avoid: | Contact with incompatible materials, excessive heat. |
| Incompatibilities: | Strong oxidizing agents. |
| Hazardous Decomposition Products: | Oxides of carbon, metal oxides, aliphatic and aromatic compounds, toxic by-products. |

SECTION 11 TOXICOLOGICAL INFORMATION

If available, toxicity data for the product is given; otherwise component data is listed.

| Acute Toxicity: | This product is not expected to be appreciablytoxic. (Water) No data. (Organic salt) Oral LD50 (mouse) 5400 mg/kg (acid moiety); Dermal LD50 (rat) > 2000 mg/kg (acid moiety) |
|---------------------------------------|--|
| Skin Corrosion / Irritation: | The product may be slightly irritating to the skin. (Water) No data. (Organic salt) Slightly irritating to skin (rabbit – similar salt) |
| Serious Eye Damage / Irritation: | The product may be slightly irritating to the eyes. (Water) No data. (Organic salts) Slightly irritating to eye (rabbit – effects were fully reversible). (Organic salt) Slightly irritating to eye (rabbit – similar salt). |
| Respiratory or Skin Sensitization: | The product is not expected to be dermally sensitizing. (Water) No data. (Organic salts) Not dermally sensitizing (mouse local lymphnode assay). (Organic salt) Not dermally sensitizing (guinea pig – similar salt). |
| Mutagenicity: | This product is not expected to be mutagenic. (Water) No data. (Organic salts) Not mutagenic (Ames test, in vitro mammalian chromosome aberration test, mammalian cell gene mutation assay and micronucleus assay). (Organic salt) Not mutagenic (Ames test). Not mutagenic (chromosome |

SECTION 11 TOXICOLOGICAL INFORMATION

| aberration assay and rodent dominant lethal assay – acid moiety). |
|--|
| This product is not expected to be carcinogenic. (Water) No data. No data. (Organic salt) No data. |
| This product is not expected to be reproductively or developmentally harmful. (Water) No data. |
| (Water) No data. No data. (Organic salt) No data. |
| (Water) No data. (Organic Salt) No data (Organic salt) No data. |
| (Organic Sal) No data |
| (Organic Salt) No data |
| (Organic Salt) No data |
| |

| Aspiration Hazard: | This product does not pose an appreciable aspiration hazard. |
|-------------------------|--|
| Additional Information: | None. |

SECTION 12 ECOLOGICAL INFORMATION

If available, ecological data for the product is given; otherwise component data is listed.

| Acute Ecotoxicity: | This product is not expected to be appreciably harmful to aquatic species. (Water) No data. (Organic salt) LC50 (Golden Orfe) 440 mg/l/48 hr (acid moiety);LC50 (Daphnia magna) 1535 mg/l/24 hr (acid moiety). |
|----------------------------|---|
| Mobility: | (Water) No data. (Organic salt) No data. |
| Persistence/Degradability: | (Water) No data. (Organic salt) Readily biodegradable (100%) |
| Bioaccumulation: | (Water) No data. (Organic salt) No data. |
| Other adverse effects: | None. |

SECTION 13 DISPOSAL CONSIDERATION

| Environmental precautions: | Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation. Neutralize with baking soda before discharging |
|----------------------------|--|
| Product Disposal: | Dispose in accordance with all local, state (provincial), and federal regulations. Under RCRA, it is the responsibility of the product's user to |

SECTION 13 DISPOSAL CONSIDERATION

determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Container Disposal: Do not remove label until container is thoroughly cleaned. Empty Containers may contain hazardous residues. Rinse with 5% Baking Soda solution before disposal. This material and its container must be disposed of in a safe way.

SECTION 14 TRANSPORT INFORMATION

DOT (US):

| | Proper Shipping Name: | Not regulated |
|-----|-----------------------|---------------|
| | UN Number: | None. |
| | Class: | None. |
| | Packaging Group: | None. |
| | Reportable Quantity: | None. |
| | Marine Pollutant: | None. |
| IAT | A: | |
| | Proper Shipping Name: | Not regulated |
| | UN Number: | None. |
| | Class: | None. |
| | Packing Group: | None. |
| IMD | OG: | |
| | Proper Shipping Name: | Not regulated |
| | UN Number: | None. |
| | Class: | None. |
| | Packing Group: | None. |
| | Marine Pollutant: | None. |
| | | |

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

SECTION 15 REGULATORY INFORMATION

| US Toxic Substance Control Act: | All components of this product are in compliance with or exempt from the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory. |
|--|---|
| Canadian Domestic Substance List: | A component of this product is listed on the Canadian Non-Domestic Substance List. Limited quantities are permitted. |
| EU REACh: | All components of this product have been pre-listed or registered under REACh. |
| TSCA Sec.12(b) Export Notification: | This product does not contain a chemical at or above de minimis concentrations which requires reporting. |
| Canadian WHMIS Classification: | None. |
| | This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR. |

SECTION 15 REGULATORY INFORMATION

| Massachusetts Right-To-Know: | This product does not on Massachusetts Right-T | contain materials subject to disclosure under the o-Know Law. | |
|---|--|--|--|
| New Jersey Right-To-Know: | This product does not contain materials subject to disclosure under the New Jersey Right-To-Know Law. | | |
| Pennsylvania Right-To-Know: | This product does not contain materials subject to disclosure under the Pennsylvania Right-To-Know Law. | | |
| California Proposition 65: | This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm. | | |
| SARA TITLE III-Section 311/312 Categorization (40 CFR 370): | None. | | |
| SARA TITLE III-Section 313 (40 CFR 372): | This product does not contain materials which are listed in Section 313 at or above de minimis concentrations. | | |
| CERCLA Hazardous Substance (40 CFR 302) | This product does not of CERCLA and Section 3 | contain materials subject to reporting under 304 of EPCRA. | |
| Water Hazard Class (WGK): | This product is slightly | water-endangering (WGK=1). | |
| Other Chemical Inventories: | Australia (AICS): | One or more component(s) are not listed. | |
| | China (IECSC): | All components of this product are listed. | |
| | Japan (ENCS): | One or more component(s) are not listed. | |
| | Korea (KCI): | All components of this product are listed. | |
| | Philippines (PICCS): One or more component(s) are not listed. Taiwan | | |
| | (TCSI): | All components of this product are listed. | |

SECTION 16 OTHER INFORMATION

| NFPA Rating - HEALTH: | 1 | | |
|---------------------------|-----------------------|---|--|
| NFPA Rating - FIRE: | 0 | | |
| NFPA Rating - REACTIVITY: | 0 | | |
| NFPA Rating - SPECIAL: | NONE | Ξ | |
| SDS Date Issued: | 6/15/2 | 018 | |
| SDS Current Version: | 1.0 | Version Date: June 15, 2018 | |
| SDS Revision History: | v1.0 Initial version. | | |
| Abbreviations: | GHS: | Globally Harmonized System of Classification and Labeling of Chemicals | |
| | CAS#: | Chemical Abstract ServicesNumber | |
| | ACGIH: | American Conference of Governmental Industrial Hygienists OSHA: | |
| | | Occupational Safety and Health Administration | |
| | NFPA: | National Fire Protection Association | |
| | DOT: | US Department of Transportation | |
| | RCRA: | US Resource Conservation and Recovery Act TLV: | |
| | | Threshold Limit Value | |
| | TWA: | Time-Weighted Average PEL: | |
| | 0751 | Permissible Exposure Limit | |
| | STEL: | Short Term Exposure Limit | |
| | WEEL: | Workplace Environmental Exposure Levels | |
| | AIHA: | American Industrial Hygiene Association NTP: | |
| | IARC: | National ToxicologyProgram International Agency for Researchon Cancer | |
| | LD50: | Lethal Dose 50% | |
| | LD00. | | |

SECTION 15 REGULATORY INFORMATION

| | LC50: Lethal Concentration 50% NOAEL: No Observed Adverse Effect Level NOEL: No Observed Effect Level EC50: Effective Concentration 50% LL50: Lethal Loading Rate 50% BCF Bioconcentration Factor BOD: Biological Oxygen Demand Koc: Soil Organic Carbon Partition Coefficient. TIm: Median Tolerance Limit |
|-----------------|--|
| Key References: | United States National Library of Medicine's TOXNET Patty's Toxicology, 5 th Edition European Commission's Institute for Health and Consumer Protection European Chemicals Agency (ECHA) American Conference of Governmental Industrial Hygienists International Agency for Research on Cancer United States National Toxicology Program United States Occupational Safety and Health Administration United States Department of Transportation Supplier Material Safety Data Sheets |
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