

SAFETY DATA SHEET (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev. 08

Issued On: 7/2/2021

Reviewed: 7/2/2021

Trade Name: GreeNew™ 5-5-0 Fertilizer

Section 1: Identification

Product Name: GreeNew™ 5-5-0

Chemical Name/Synonyms: Dried Biosolids

Product Description: Fertilizer composed of dried biosolids.

Manufacturer/Supplier:

Rialto Bioenergy Facility, LLC

503 E Santa Ana Ave

Rialto, CA 92316

Telephone: +1 (760)-517-7259

US Poison Control Center Hotline: 1-800-222-1222

Section 2: Hazard(s) Identification

Hazard Classification:



GHS07

Skin Irrit. 2 H315 Causes Skin Irritation
Eye Irrit. 2A H319 Causes serious eye irritation
STOT SE 3 May cause respiratory irritation

Aquatic Acute 2 H401 Toxic to aquatic life

Label Elements:

GHS Label Elements

The product is classified and labeled according to the Globally Harmonized System (GHS)

Pictograms:



GHS07

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Trade Name: GreeNew™ 5-5-0 Fertilizer

Signal Word(s): Warning

Hazard-determining components of labeling:

Activated Sewage Sludge (biosolids)

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Toxic to aquatic life.

Precautionary Statements:

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Wear eye protection/face protection.

Avoid release to the environment.

Wash thoroughly after handling.

Description of other hazards:

If in eyes: rinse thoroughly with fresh water for several minutes. Remove contact lenses if present.

If inhaled: Remove person to fresh air.

Call a Poison Center/Doctor if you feel unwell.

If skin irritation occurs: Seek medical advice/attention.

If eye irritation persists: Seek medical advice/attention.

If on skin: Wash with soap and fresh water.

Take off contaminated clothing and wash it before reuse.

Store locked up, in a well ventilated, cool, dry environment.

Keep storage container tightly sealed.

Keep out of reach of children and pets.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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Trade Name: **GreeNew™ 5-5-0 Fertilizer**

Classification System:

NFPA Ratings (Scale 0-4)



Health = 1
Fire = 0
Reactivity = 0

HMIS-Ratings (scale 0-4)



Health = 1
Fire = 0
Reactivity = 0

Hazard(s) not otherwise classified (HNOC): None known

Section 3: Composition/ Information on Ingredients

Description: Dried Biosolids Fertilizer

Dangerous Components:

Chemical Name	Synonym	CAS#	Conc.
Activated Sewage Sludge	Biosolids	8049-99-8	100%

Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320; Aquatic Acute 2, H401

Additional Information: Trace metals and volatile organics can be detected in quantities less than 1.0% most less than 0.1%. These components and pathogenic agents are a low quantity to allow this product to meet US EPA 40CFR Part 503 Class A Exceptional Quality biosolid requirements.

Section 4: First-Aid Measures

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Remove contact lenses at once. Rinse opened eye under running water for at least 15 minutes. If irritation persists, seek medical attention.

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After inhalation: Remove affected person to fresh air. Seek medical attention if symptoms persist.

After swallowing: If suffering gastrointestinal discomfort, treat symptomatically.

Information for doctor:

Most important symptoms and effects, both acute and delayed:

Asthmatics exposed to excessive dust may have trouble breathing.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from this substance:

At high temperatures, this material can give off undefined fumes. Fine dust may form an explosive mixture. Bulk wetted material may generate heat upon storage. Use of TEFC electrical equipment is advised to aid in control of dust-caused explosions. Control fugitive dust at its' source by containment or treating with a dust suppressant. Slippery when wet, guard against falls.

Special protective equipment for firefighters: Do not breathe fumes. Prevent runoff from entering drains, sewers or any bodies of water. Slippery when wet, guard against falls.

Protective equipment:

Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

Personal precautions: Not required.

Measures for environmental protection: Do not allow to enter sewers, drains or surface/ground water.

Measures for cleaning/collecting: Sweep, vacuum or shovel any excess material into a properly labeled container. If possible, reuse the product. Ensure that disposal is in compliance with all relevant local/regional/national/international regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information

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Section 7: Handling and Storage

Handling

Precautions for safe handling:

Avoid breathing dust. Wash after handling. Do not contaminate water by disposal of equipment washwaters. Do not allow to become wet during storage.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities:

Storage

Requirements to be met by storerooms and receptacles:

Store in the original container.

Store in a cool, dry area out of reach of children and animals. Keep dry. Bulk wetted material may generate heat upon storage.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Some coprophagic canines (fecal eating dogs) may be attracted by the odor of biosolids, transfer their fecal attraction to GreeNew™ 5-5-0 fertilizer, rip open bags in storage and over eat. A dog may be sick for 24 to 48 hours, beginning with vomiting that can lead to dehydration, incontinence (stiffness in the hind legs), atrophy, depression, and black stools due to the high carbon content of GreeNew™ 5-5-0. In most cases, symptomatic care prescribed by a veterinarian will relieve these symptoms.

Specific end use(s): No further relevant information available.

Section 8: Exposure Controls/Personal Protection

Additional information about design of technical systems: No further data; see section 7.

Control parameters:

Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation of this SDS were used as basis.

Exposure controls:

Provide general ventilation in processing and storage. Provide local exhaust if necessary to reduce dust levels below acceptable limits.

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment: Not required.

Protection of hands: Wear protective gloves.

Eye protection: Wear tightly sealed goggles.

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Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

General information

Appearance:

Form: Granulate

Color: Dark

Odor: Earthy

Odor threshold: Not determined.

pH value: 6.5; Slightly acidic

Change in condition

Melting point/melting range: Not determined.

Boiling point/boiling range: Not determined.

Flash point: None

Flammability (solid, gaseous): Not determined.

Ignition temperature:

Decomposition temperature: Not determined.

Auto igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapor pressure: Not applicable.

Density:

Relative density: Not determined.

Vapor density: Not applicable.

Evaporation rate: Not applicable.

Solubility in / Miscibility with:

Water: Slightly soluble.

Partition coefficient (n-octanol/water): Not determined.

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Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

Other information: Bulk Density: 50-51 lbs/ft³

Section 10: Stability and Reactivity

Reactivity: No further relevant information available.

Chemical stability: Stable under normal conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: Excessive heat; absorbs moisture in highly humid areas

Incompatible materials: Strong acids, alkalis and oxidizing agents.

Hazardous decomposition products:

Expected to emit the same types of toxic smoke as would be released during combustion of other organic materials.

Section 11: Toxicological Information

Information on toxicological effects:

Acute toxicity:

Primary irritant effect:

On the skin: Irritant to skin and mucous membranes.

On the eye:

Irritating effect.

Causes serious eye irritation.

Additional toxicological information:

As a recycled product made by a municipal water reclamation facility, biosolids have the potential to contain various pollutants. The U.S. Environmental Protection Agency has extensively analyzed the risk from these pollutants. These analyses have considered over 400 compounds, including metals, volatile and semi-volatile organic compounds, pesticides, furans, dioxins, polychlorinated biphenyls, and polybrominated diphenyl ethers. These analyses have concluded that only metals present significant risks at the levels likely to be found in biosolids. In response, the U.S. Environmental Protection Agency has established limits for nine metals (40 CFR 503.13(b)). Metals concentrations in GreeNew™ 5-5-0 are consistently far below the applicable limits (40 CFR 503.13(b)(1)Table3).

In biosolids, pathogens may present a risk. In response, the U.S. Environmental Protection Agency has established pathogen limits. To destroy pathogens, GreeNew™ 5-5-0 is heated to 176° F and dried to a moisture content of less than 10%, which ensures compliance with the applicable limits (40 CFR 503.32(a)(7)).

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Carcinogenic categories:

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed:

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Section 12: Ecological Information

Toxicity:

Aquatic toxicity: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system.

Harmful to aquatic organisms.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

Section 13: Disposal Considerations

Waste treatment methods:

Recommendation:

Sweep, vacuum or shovel material into labeled container. If at all possible, reuse product. Material is a fertilizer and should be used as such. Keep out of any body of water. Ensure that disposal is in compliance with local, state or federal regulations. Bulk wetted material may generate heat upon storage.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Section 14: Transport Information

UN-Number:

DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

UN proper shipping name:

DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

Transport hazard class(es):

DOT, ADR, ADN, IMDG, IATA

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Class: Non-Regulated Material

Packing group:

DOT, ADR, IMDG, IATA Non-Regulated Material

Environmental hazards: Not applicable.

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

UN "Model Regulation": Non-Regulated Material

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

SARA (Superfund Amendments and Reauthorization):

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

7705-08-0	iron trichloride
10028-22-5	diiron tris(sulphate)
7732-18-5	Water, distilled water, deionized water

California Proposition 65:

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Carcinogenic categories:

EPA (Environmental Protection Agency):

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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Hazard pictograms:



GHS 07

Signal word: Warning

Hazard-determining components of labeling:

Activated Sewage Sludge (dried biosolids)

Hazard statements:

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Toxic to aquatic life.

Precautionary statements:

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Wear eye protection / face protection.

Avoid release to the environment.

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Removes contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POSION CENTER/doctor if you feel unwell.

If skin irritation occurs: Get medical advice/attention.

If eye irritation occurs: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations: The product is subject to be classified according with the latest version of the regulations on hazardous substances.

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Trade Name: GreeNew™ 5-5-0 Fertilizer

State Right to Know:

8049-99-8	Activated Sewage Sludge (biosolids, dried microbes) Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320; Aquatic Acute 2, H401	100%
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All ingredients are listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section 16: Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision: 7/02/2021

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

STOT SE 3: Specific target organ toxicity – Single exposure, Hazard Category 3

Aquatic Acute 2: Hazardous to the aquatic environment – AcuteHazard, Category 2