

1. IDENTIFICATION

1.1 Product identifiers

GCS Inject PK

1.2 Details of the supplier of the safety data sheet

Company name:	Generic Crop Science, LLC (GCS, LLC)
Address:	1887 Whitney Mesa Drive #9740
City, State and Zip Code:	Henderson, NV 89014-2069
Telephone:	(866) 396-0465

1.4 Emergency telephone number Call local Poison Control center

2. HAZARDS IDENTIFICATION

2.1 Classifications of the substance or mixture

Classification according to OSHA Hazard Communication Standard, 29 CFR 1910.1200 (2012)

Combustible dust

STOT RE - Category 1

2.2 Label Elements

Signal Word:

Danger

Hazard pictograms:



Hazard statements:

May form combustible dust concentrations in air.

Causes damage to lungs through prolonged or repeated exposure by inhalation.

Precautionary statements – General :

Do not breathe dust.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Get medical advice/attention if you feel unwell.

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

2.3 Other hazards

0% of the mixture consists of ingredient/ingredients of unknown acute toxicity.

2.4 Appearance and odor

Tan-Green / Granules / Musty

2.5 Other hazards

This product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Refer to section 11 for toxicological and section 12 for environmental information.

3. COMPOSITION OF PRODUCT**Active ingredient:**

None / Not Applicable.

Component	CAS No.	% by weight (approximate)
Bacillus amyloliquefaciens		8.3
Trichoderma virens		9.9
Talc	14807-96-6	25-40
Minor formulating ingredients		>=35 - <=60

Trade secret composition.

4. FIRST AID

Use personal protection recommended in Section 8.

4.1 Eye Contact

If in eyes, hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

4.2 Skin Contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Sensitized persons should avoid further contact and reuse of contaminated clothing.

4.3 Inhalation

If inhaled, move person to fresh air. If person is not breathing, call emergency number or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

4.4 Ingestion

Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Eye Contact, short term

Not expected to produce significant adverse effects when recommended use instructions are followed. Dust particles may cause slight eye irritation.

Skin Contact, short term

Not expected to produce significant adverse effects when recommended use instructions are followed.

Inhalation, short term

Not expected to produce significant adverse effects when recommended use instructions are followed.

Single ingestion

Not expected to produce significant adverse effects when recommended use instructions are followed.

4.5 Indication of any immediate medical attention and special treatment needed

Specific and immediate treatment:

N/A

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Recommended: Water, dry chemical, foam, carbon dioxide (CO₂)

5.2. Special hazards

Unusual fire and explosion hazards

This material as normally packaged and handled can contain sufficient fines to form an explosive mixture if dispersed in a sufficient quantity of air.

Environmental precautions: see section 6.

Hazardous products of combustion

Carbon monoxide (CO), carbon dioxide (CO₂), nitrogen oxides (NO_x)

5.3. Fire fighting equipment: Self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

5.4. Flash point

Not applicable.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions

Do not breathe dust.

6.2. Environmental precautions

Keep out of drains, sewers, ditches and water ways.

Do NOT contaminate water when disposing of rinse waters.

6.3. Methods for cleaning up

Collect in containers for reclamation or disposal.

Use vacuum equipment designed specifically for combustible dust.

Wash spill area with detergent and water.

Refer to section 13 for disposal of spilled material.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

7. HANDLING AND STORAGE

Good industrial practice in housekeeping and personal hygiene should be followed.

7.1. Precautions for safe handling

Avoid contact with eyes, skin and clothing. Avoid breathing dust. Do NOT taste or swallow. When using do not eat, drink or smoke. Wash hands thoroughly after handling or contact. Wash contaminated clothing before re-use. Thoroughly clean equipment after use. Refer to section 13 of the safety data sheet for disposal of rinse water. Do not contaminate drains, sewers and water ways when disposing of equipment rinse water.

7.2. Conditions for safe storage

Maximum storage temperature: 20 °C

Incompatible materials for storage: Acids, bases, oxidizers, reducers, disinfectants, fungicides, and/or biocides may inactivate this product.

Keep only in the original container.

Keep container tightly closed in a cool, well-ventilated place.

Keep material dry.

Keep container off wet floors.

Keep away from direct sunlight.

Protect from freezing.

Keep away from heat.

Keep out of reach of children.

Keep away from food, drink and animal feed.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1 Airborne Exposure Limits

Components	Exposure Guidelines
Bacillus amyloliquefaciens	No specific occupational exposure limit has been established.
Trichoderma virens	No specific occupational exposure limit has been established.
Talc	TLV (ACGIH) 2 mg/m ³ : respirable fraction PEL (OSHA): 20 mppcf
Minor formulating ingredients	No specific occupational exposure limit has been established.

8.2 Engineering Controls

Provide local exhaust ventilation.

8.3. Recommendations for personal protective equipment

Eye protection:

If there is potential for contact: Wear dust goggles.

Skin protection:

Wear chemical resistant gloves. If there is potential for contact:Wear chemical resistant clothing/footwear.

Respiratory protection:

If airborne exposure is excessive: Wear respirator.

When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

9. PHYSICAL AND CHEMICAL PROPERTIES

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Color/color range	Tan - green
Odor	Musty
Form	Granules
Physical form changes (melting, boiling, etc.)	
Melting point	No data
Boiling points	Not applicable
Flash point	Not applicable
Explosive properties	No data
Auto ignition temperature	No data
Self-accelerating decomposition temperature (SADT)	No data
Oxidizing properties	No data
Specific gravity	Not applicable
Vapor pressure	No significant volatility
Vapor density	Not applicable

Evaporation rate	Not applicable
Dynamic viscosity	Not applicable
Kinematic viscosity	Not applicable
Density	No data
Solubility	Soluble
pH	Not applicable
Partition coefficient	No data

10. STABILITY AND REACTIVITY

10.1 Stability

Stable under normal conditions of handling and storage.

10.2. Conditions to avoid

Protect from freezing. Keep away from heat.

10.3. Incompatible materials

Acids, bases, oxidizers, reducers, disinfectants, fungicides, and/or biocides may inactivate this product.;

Compatible materials for storage: see section 7.2.

10.4. Hazardous decomposition

Thermal decomposition: Hazardous products of combustion: see section 5.

11. TOXICOLOGICAL INFORMATION

This section is intended for use by toxicologists and other health professionals.

Likely routes of exposure: Skin contact, eye contact, inhalation

Potential health effects

Eye contact, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Dust particles may cause slight eye irritation.

Skin contact, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Inhalation, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Single ingestion: Not expected to produce significant adverse effects when recommended use instructions are followed.

Toxicity studies have not been conducted on this product. Data obtained on components are summarized below.

Talc

Carcinogenicity

Listed as Category 2A by the peridental route by the International Agency for Research on Cancer (IARC) but this is not a relevant route of occupational exposure.

EXPERIENCE WITH HUMAN EXPOSURE

Inhalation, prolonged, occupational:

Respiratory effects: wheezing, cough, shortness of breath (dyspnoea), fibrosis

12. ECOLOGICAL INFORMATION

This section is intended for use by ecotoxicologists and other environmental specialists. Environmental studies have not been conducted on this product.

13. DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1 Waste treatment methods

Do not pour into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Local arrangements:

Submit to an approved disposal.

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste:

06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

14. TRANSPORT INFORMATION

Exempt from transport classification and labeling.

Transport product in compliance with provisions of the ADR for road, RID for rail, AMDG for sea and ACAO/IATA for air transport (ADR 2013 – IMDG 2012 – ACAO/IATA 2014).

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture – Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EEC and its adaptations
- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2013.

-Container information:

No data available

-Particular provisions:

No data available.

Substances that deplete the ozone layer (EC Regulation No. 1005/2009, Montreal Protocol):

This product is not subject to any regulation concerning the nomenclature of classified installations (storage and use).

15.2 Chemical safety assessment

No data available.

16. OTHER INFORMATION

Issued 12-2-2015. This revised SDS cancels and replaces any preceding release or MSDS. It refers solely to the product indicated and constitutes no guarantee of particular quality. In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols:



Irritant

Risk phrase :

R 36 Irritating to eyes

Safety phrase:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 60 This material and its container must be disposed of as hazardous waste.

S 1/2 Keep locked up and out of reach of children

S 20/21 When using do not eat, drink or smoke.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organization.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungskasse (Water Hazard Class)

GHS07 : Exclamation mark

Health	1
Flammability	0
Reactivity	0
Personal Protection	B



Health Hazard 1

Irritation or minor reversible injury possible

Flammability 0

Materials that will not burn

Reactivity 0

Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection B Safety Glasses + Gloves

HMIS Ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS ratings are not required on MSDS's by OSHA's CFR 1910.1200, we choose to provide them as a service to our customers using HMIS. These ratings are to be used only with a fully implemented HMIS program. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Other Information

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Vendor Notes

Every endeavor has been made to ensure that the information contained in this SDS leaflet is reliable, but we cannot accept liability for any loss, injury or damage, which may result from its use or misuse. Data given in this SDS is solely for the guidance in safe handling and use of the product by customers; they do not form part of any specification. If difficulties arise, we shall be glad to discuss them. Customers are encouraged to conduct their own tests following discussion with our technical department. The above information is based on experience, but it is always advisable for customers to satisfy themselves, by consultation with our technical department and small-scale testing if necessary, that product, which they have selected, is suitable for their purpose under their conditions of use.