



FBSCIENCES INC

Safety Data Sheet Transvigorate

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Transvigorate
Product number	FBS 1228
Brand	FBSciences

1.2 Other means of identification

Microbial-based liquid formula for use in agriculture providing nutrient absorption enhancement and biological nitrogen fixation.

1.3 Recommended use of the chemical and restrictions on use

Soil Health Enhancer

1.4 Supplier's details

Name	FBSciences Inc
Address	153 North Main Street Suite 100 Collierville TN 38017 USA
Telephone	901-221-1200

1.5 Emergency phone number

CHEMTREC 1-800-424-9300

SECTION 2: Hazard identification

General hazard statement

No data available.

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

Not a hazardous substance or mixture.

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

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2.3 Other hazards which do not result in classification

No data available.

Statement regarding ingredients of unknown toxicity

No data available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Component	Concentration
Bacillus bacteria CLASSIFICATIONS: No data available. HAZARDS: No data available.	Not specified, Trade secret*
Potassium sulfate (CAS no.: 7778-80-5) CLASSIFICATIONS: No data available. HAZARDS: No data available.	Not specified, Trade secret*
Molasses (CAS no.: 68476-78-8; EC no.: 270-698-1) CLASSIFICATIONS: No data available. HAZARDS: No data available.	Not specified, Trade secret*

Trade secret statement (OSHA 1910.1200(i))

*Exact percentage has been withheld as trade secret.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. No special measures required.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact	Immediately rinse with water. If skin irritation continues, consult a doctor.
In case of eye contact	Check for and remove contact lenses. Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

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SECTION 5: Fire-fighting measures

- 5.1 Suitable extinguishing media**
Use extinguishing media appropriate for surrounding fire.
- 5.2 Specific hazards arising from the chemical**
No further relevant information available.
- 5.3 Special protective actions for fire-fighters**
Wear self-contained breathing apparatus for firefighting if necessary.
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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.
- 6.2 Environmental precautions**
Dilute with plenty of water.
- 6.3 Methods and materials for containment and cleaning up**
Soak up with inert absorbent material (e.g., sand, silica gel). Keep in suitable, closed containers for disposal. Wash area with soapy water.
Disinfect spill area with clean water to which household bleach is added at a rate of 100 mL per 20 liters.
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SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**
Prevent formation of aerosols. Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**
Storage requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility:
Store away from foodstuffs.
Store away from oxidizing agents.

Further information about storage conditions:
Protect from frost.
Protect from heat and direct sunlight.
Store in a cool dry place between the temperatures of 5°C / 41°F and 40°C / 104°F away from direct sunlight.

Specific end use(s)
No further relevant information available

SECTION 8: Exposure controls/personal protection

- 8.2 Appropriate engineering controls**
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
- 8.3 Individual protection measures, such as personal protective equipment (PPE)**

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Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with protective gloves that are impervious to the chemical substance. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection

In case of insufficient ventilation, wear A NIOSH certified respirator with APF>10, in accordance with OSHA respirator regulations found in 29 CFR 1910.134.

SECTION 9: Physical and chemical properties and safety characteristics

Physical state	Liquid
Color	brown
Odor	Mild
Odor threshold	No data available.
pH	5-6
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Vapor pressure	No data available.
Relative vapor density	No data available.
Density and/or relative density	1.04-1.14
Solubility	No data available.
Partition coefficient n-octanol/water (log value)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Kinematic viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Particle characteristics

No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

None under normal use conditions. Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications.

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10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Organic matter under decomposition/combustion may produce:

- Carbon monoxide and carbon dioxide.
- Sulfur oxides (SO_x).
- Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

No data available.

Skin corrosion/irritation

No irritating effect.

Serious eye damage/irritation

No irritating effect.

Respiratory or skin sensitization

No sensitizing effects known.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

There are no ingredients classified as carcinogens according to IARC, ACGIH, NTP or OSHA

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

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Aspiration hazard

No data available.

Additional information

Additional toxicological information:

- The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
- When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
- There are no ingredients classified as carcinogens according to IARC, ACGIH, NTP or OSHA

SECTION 12: Ecological information

Toxicity

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Persistence and degradability

Easily biodegradable

Bioaccumulative potential

Low bioaccumulative potential

Mobility in soil

No data available on product.

Results of PBT and vPvB assessment

Not applicable.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Offer surplus and non-recyclable solutions to a licensed disposal company.

Packaging disposal

Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

14.1	UN Number	None
14.2	UN Proper Shipping Name	None
14.3	Transport hazard class(es)	None
14.4	Packing group	None
14.5	Environmental hazards	None
14.6	Special precautions for user	None
14.7	Transport in bulk according to IMO instruments	None

SECTION 15: Regulatory information

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

16.1 Further information/disclaimer

The directions for use of this product are believed to be adequate and must be followed carefully. The use of this product is beyond the control of the manufacturer, and, therefore, to the extent consistent with applicable law, no warranty, representation, or guarantee of any kind, expressed or implied, is made as to the effects of such use or any results obtained if not used in accordance with printed directions and established safe practice or if unusual or extraordinary weather conditions occur. To the extent consistent with applicable law, the buyer's exclusive remedy and manufacturer's or seller's exclusive liability in tort or otherwise, shall be limited, at the manufacturer's option, to replacement of, or the repayment of the purchase price for, the quantity of product with respect to which damages are claimed.

The information and recommendations contained herein are based upon data believed to be correct. However there is no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.