



FBSCIENCES INC
Safety Data Sheet
ManCAN Soil

SECTION 1: Identification

Product identifier

Product name ManCAN Soil

Product number FBS 1157

Recommended use of the chemical and restrictions on use

Calcium nitrate compatible fertilizer

Supplier's details

Name FBSciences Inc
Address 153 North Main Street Suite 100
 Collierville TN 38017
 USA

Telephone 901-221-1200

Emergency phone number(s)

CHEMTREC 1-800-424-9300

SECTION 2: Hazard identification

Classification of the substance or mixture

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

- Eye damage/irritation (C.4.5), Cat. 1
- Skin corrosion/irritation (C.4.4), Cat. 1A

GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

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Hazard statement(s)	
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
Precautionary statement(s)	
P260	Do not breathe mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to comply with local, state, and federal regulations.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. Bis(D-gluconato-O1,O2)manganese

Concentration 1 - 10 % (weight)*

Other names / synonyms

Manganese gluconate; Manganese, bis(D-gluconato-O¹,O²)-, (β-4)-

CAS no.

6485-39-8

2. Nitric acid (40% to 70%)

Concentration 1 - 5 % (weight)*

Other names / synonyms

Nitric acid;

EC no.

231-714-2

CAS no.

7697-37-2

Index no.

007-004-00-1

- Oxidizing liquids (C.4.26), Cat. 2

- Skin corrosion/irritation (C.4.4), Cat. 1A

H272

May intensify fire; oxidizer

H314

Causes severe skin burns and eye damage

Trade secret statement (OSHA 1910.1200(i))

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4: First-aid measures

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Description of necessary first-aid measures

General advice	Get medical advice/attention if you feel unwell.
If inhaled	Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms/effects, acute and delayed

Causes severe skin burns and eye damage. If ingested may cause corrosion of gastrointestinal tract.

Eye contact : Serious damage to eyes.

Inhalation : May cause respiratory irritation.

Skin contact : Burns.

Ingestion : Burns.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products:

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, and nitrogen oxides

Special protective actions for fire-fighters

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

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Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

SECTION 7: Handling and storage

Precautions for safe handling

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.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: Exposure controls/personal protection

Control parameters

1. Nitric acid (40% to 70%) (CAS: 7697-37-2)

PEL (Inhalation): 2 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 5 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 2 ppm, (ST) 4 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 2 ppm, (ST) 4 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

Appropriate engineering controls

Ensure good ventilation of the work station.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). 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.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

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Appearance/form (physical state, color, etc.)	Liquid
Odor	No data available.
Odor threshold	No data available.
pH	1-2
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Other safety information

No data available.

SECTION 10: Stability and reactivity

Reactivity

None under normal use conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal use conditions.

Conditions to avoid

None under normal use conditions.

Incompatible materials

No data available.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Not classified

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Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Not classified

Respiratory or skin sensitization

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

STOT-single exposure

Not classified

STOT-repeated exposure

Not classified

Aspiration hazard

Not classified

Additional information

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Burns.

Symptoms/injuries after eye contact : Serious damage to eyes.

Symptoms/injuries after ingestion : Burns.

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

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SECTION 13: Disposal considerations

Disposal of the product

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Disposal of contaminated packaging

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

Waste treatment

Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Sewage disposal

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Other disposal recommendations

The generation of waste should be avoided or minimized wherever possible.

SECTION 14: Transport information

DOT (US)

UN Number: 3264

Class: 8

Packing Group: III

Proper Shipping Name: Corrosive liquid, Acidic, Inorganic, N.O.S. (Nitric Acid,)

IMDG

UN Number: 3264

Class: 8

Packing Group: III

EMS Number: F-A, S-B

Proper Shipping Name: Corrosive liquid, Acidic, Inorganic, N.O.S. (Nitric Acid,)

IATA

UN Number: 3264

Class: 8

Packing Group: III

Proper Shipping Name: Corrosive liquid, Acidic, Inorganic, N.O.S. (Nitric Acid,)

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Canadian Domestic Substances List (DSL)

Chemical name: Nitric acid, manganese(2++) salt

CAS: 10377-66-9

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Chemical name: Manganese, bis(D-gluconato-O¹,O²)-, (β-4)-
CAS: 6485-39-8

Chemical name: Nitric acid
CAS: 7697-37-2

Massachusetts Right To Know Components

Chemical name: Nitric acid
CAS number: 7697-37-2

New Jersey Right To Know Components

Common name: NITRIC ACID
CAS number: 7697-37-2

Pennsylvania Right To Know Components

Chemical name: Nitric acid
CAS number: 7697-37-2

HMIS Rating

Health	3
Flammability	0
Physical hazard	4
Personal protection	

NFPA Rating

Health hazard	0
Fire hazard	0
Reactivity hazard	0
Special hazard	W

SECTION 16: Other information

Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall [COMPANY NAME] be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if [COMPANY NAME] has been advised of the possibility of such damages.