

SAFETY DATA SHEET

1. Identification

Product identifier Bloom and Root Plant Food 10-52-8

Other means of identification

31003 **Product code**

Recommended use Agricultural /horticulture use - NPK fertilizer with micronutrients - refer to product label

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Lawn and Garden Products, Inc. Company name

Address PO Box 35000

Fresno, CA 93745

Telephone **Emergency Contact Number** 1-559-994-9144

Website www.montereylawngarden.com E-mail info@montereylawngarden.com

CHEMTREC (24 hours): **Emergency phone number**

> USA, Canada, Puerto Rico 1-800-424-3900

2. Hazard(s) identification

Physical hazards Not classified.

Acute toxicity, oral **Health hazards**

Environmental hazards Not classified. Not classified. **OSHA** defined hazards

Label elements



Signal word Warning

Harmful if swallowed. **Hazard statement**

Precautionary statement

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Prevention

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.

Storage Store away from incompatible materials.

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

Category 4

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 96.53% of the mixture consists of component(s) of unknown acute oral toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Potassium Nitrate		7757-79-1	3.3599664003
Manganese EDTA, disodium salt		15375-84-5	0.3859161408
EDTA, Disodium Copper(II) Salt		14025-15-1	0.3571164288
Sodium tetraborate pentahydrate		12179-04-3	0.099999
Sodium Molybdate, Dihydrate		10102-40-6	0.00099999
Other components below reportable leve	els		95.7960020397

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*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a

physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Direct contact with eyes may cause temporary irritation.

Get medical advice/attention if you feel unwell.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Do not use water jet as an extinguisher, as this will spread the lin

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Following product recovery, flush area with water. Sweep up or vacuum up spillage and collect in suitable container for disposal. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not taste or swallow. Avoid breathing dust. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Keep container tightly closed. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

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8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limi	ts for Air Contaminants	(29 CFR 1910.1000)

Components	Туре	Value	
Manganese EDTA, disodium salt (CAS 15375-84-5)	Ceiling	5 mg/m3	
Sodium Molybdate, Dihydrate (CAS 10102-40-6)	PEL	5 mg/m3	
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	Form
Sodium Molybdate, Dihydrate (CAS 10102-40-6)	TWA	0.5 mg/m3	Respirable fraction.
Sodium tetraborate pentahydrate (CAS 12179-04-3)	STEL	6 mg/m3	Inhalable fraction.
,	TWA	2 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	Form
EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)	TWA	1 mg/m3	Dust and mist.
Manganese EDTA, disodium salt (CAS 15375-84-5)	STEL	3 mg/m3	Fume.
,	TWA	1 mg/m3	Fume.
Sodium tetraborate pentahydrate (CAS 12179-04-3)	TWA	1 mg/m3	
ogical limit values	No biological exposure limits noted for	or the ingredient(s)	

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Face shield is recommended. Wear safety glasses with side shields (or goggles). Use tight fitting Eye/face protection

goggles if dust is generated.

Skin protection

Wear appropriate chemical resistant gloves. **Hand protection**

Wear suitable protective clothing. Other

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels Respiratory protection

exceeding the exposure limits. Respiratory protection not required.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene Keep away from food and drink. Always observe good personal hygiene measures, such as

considerations washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Powder, Solid. **Appearance**

Solid. Physical state

Form Powder. Solid. Color Light blue None. Odor **Odor threshold** Not available.

Not available. Salt-Out / Crystallization Temp Not available. Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point

Evaporation rate

Flammability (solid, gas)

Not available.

Not available.

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure
Not available.
Vapor density
Relative density
Not available.

Solubility(ies)

Solubility (water) Soluble

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Decomposition temperature

Not available.

Viscosity Not available.

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

nazardous polymenzation does not occur.

Conditions to avoid Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces

with compressed air).

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion Harmful if swallowed.

Inhalation Prolonged inhalation may be harmful. Inhalation of dusts may cause respiratory irritation.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Dust in the eyes will cause irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Harmful if swallowed. Not known.

Product Species Test Results

Bloom and Root Plant Food (CAS Mixture)

Acute Inhalation

LD50 Rat 2000.001 mg/l estimated

Material name: Bloom and Root Plant Food 715 Version #: 01 Issue date: 06-16-2015 Components Species Test Results

Potassium Nitrate (CAS 7757-79-1)

Acute

Oral

LD50 Rabbit 1166 mg/kg

Sodium tetraborate pentahydrate (CAS 12179-04-3)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LD50 Rat > 2 mg/l

Oral

LD50 Rat 2660 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Dust in the eyes will cause irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product Species Test Results

Bloom and Root Plant Food (CAS Mixture)

Aquatic

Acute

Fish LC50 Fish 25913.4492 mg/l, 96 hr estimated

Components Species Test Results

EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)

Aquatic

Fish LC50 Channel catfish (Ictalurus punctatus) 838 mg/l, 96 hours

Potassium Nitrate (CAS 7757-79-1)

Aquatic

Acute

Fish LC50 Fish 1378 - 3000 mg/l

Sodium Molybdate, Dihydrate (CAS 10102-40-6)

Aquatic

Crustacea EC50 Tubificid worm (Tubifex tubifex) 42.48 - 65.64 mg/l, 48 hours

^{*} Estimates for product may be based on additional component data not shown.

Components Species Test Results

Fish LC50 Striped bass (Morone saxatilis) > 79.8 mg/l, 96 hours

Sodium tetraborate pentahydrate (CAS 12179-04-3)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 104 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Not available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

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

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulationsThis product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

EDTA, Disodium Copper(II) Salt (CAS 14025-15-1) Listed. Manganese EDTA, disodium salt (CAS 15375-84-5) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

^{*} Estimates for product may be based on additional component data not shown.

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Monoammonium Phosphate (MAP)	7722-76-1	79.5892041079
Potassium Nitrate	7757-79-1	3.3599664003

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Manganese EDTA, disodium salt (CAS 15375-84-5)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Potassium Nitrate (CAS 7757-79-1)

Sodium tetraborate pentahydrate (CAS 12179-04-3)

US. New Jersey Worker and Community Right-to-Know Act

EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)

Manganese EDTA, disodium salt (CAS 15375-84-5)

Potassium Nitrate (CAS 7757-79-1)

Sodium tetraborate pentahydrate (CAS 12179-04-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Potassium Nitrate (CAS 7757-79-1)

Sodium tetraborate pentahydrate (CAS 12179-04-3)

US. Rhode Island RTK

EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)

Manganese EDTA, disodium salt (CAS 15375-84-5)

Potassium Nitrate (CAS 7757-79-1)

US, California Proposition 65

ATTENTION: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s)

16. Other information, including date of preparation or last revision

Issue date 06-16-2015

Version # 01

Material name: Bloom and Root Plant Food 715 Version #: 01 Issue date: 06-16-2015

Disclaimer

Brandt Consolidated, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. While the information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder are given gratis and we assume no obligation or liability for the information given or results obtained, all such being given and accepted at your risk.

Revision Information

Product and Company Identification: Alternate Trade Names

GHS: Classification