

QminTM Zinc Manganese Blend - 80/20 Safety Data Sheet

Prepared according to Federal register / Vol. 77, No. 58/ Monday, March 26th 2012 / Rules and Regulations

Revision date: 10/27/2015 Supersedes: N/A

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product name : Qmin[™] Zinc Manganese Blend - 80/20

Product code : 7334
Product form : Substance

1.2. Relevant identified uses of the substance or mixture and advised against

Intended use : Plant Nutritional Supplement

Uses advised against : None identified

1.3. Details of the supplier of the safety data sheet

QualiTech, Inc. Phone: 1-800-328-5870 318 Lake Hazeltine Drive Web: qualitechco.com

Chaska, MN 55318

1.4. Emergency telephone number

Emergency number : Infotrac (800) 535-5053

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Irritant 2 H315 Eye Irritant 2 H319

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



Hazard statement (GHS-US) : H315 Causes skin irritation

H319 Causes serious eye irritation

Signal word (GHS-US) : Warning

Precautionary statements (GHS-US) : P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read label before use

P261 Avoid breathing dust/fume/ gas/mist/vapours/spray

P264 Wash skin thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face

protection

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

P305+P351+P3 IF IN EYES: Rinse cautiously with water for several minutes. Remove

38 contact lenses if present and easy to do so. Continue rinsing

P312 Call a POISON CENTER/doctor/physician if you feel unwell

2.3. Other Hazards

Other hazards not contributing to the

classification

: None under normal conditions

2.4. Unknown acute toxicity (GHS-US) : No data available.

SECTION 3: Composition/information on ingredients

3.1. Mixture

3.2. Substance

Name	CAS#	%
Zinc	7440-66-6	5-10
Manganese	7439-96-5	<5
Citric Acid	77-92-9	<5
Nitric Acid	7697-37-2	<5

Specific chemical identity (ies) and/or exact percentage(s) of composition may be withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to

the doctor in attendance. Wash contaminated clothing before re-use. Never give

anything to an unconscious person

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing. Get medical attention if breathing is affected. Supply oxygen if necessary

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before

reuse. If skin irritation occurs, get medical advice/attention

First-aid measures after eye contact : IF IN EYES: Immediately flush with water for several minutes. Remove contact lenses

if present and easy to do so. Continue rinsing. Seek medical care.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting without advice from poison

control center or medical professional. Get medical attention if you feel unwell

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Not available

Symptoms/injuries after skin contact : Causes skin irritation

Symptoms/injuries after eye contact : Causes eye irritation, may cause significant eye irritation

Symptoms/injuries after ingestion : Causes digestive tract irritation

4.3. Indication of any immediate medical attention and special treatment needed

Call physician and Poison Control Center if adverse conditions appear

SECTION 5: Firefighting measures

5.1. Extinguishing Media

Suitable extinguishing media : Any media suitable for surrounding materials

Unsuitable extinguishing media : Does not apply

5.2. Special hazards arising from the substance or mixture

Fire hazard : The product is not flammable

Explosion hazard : No data available Reactivity : No data available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting

any chemical fire

Protection during firefighting : Do not enter area without proper protective equipment, including respiratory

protection

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Restrict area and proceed with clean up using appropriate protective

equipment. Dispose of material in accordance with all applicable municipal,

state, and federal regulations

6.1.1 For non-emergency personnel

Protective equipment : Safety glasses. Gloves. Dust mask Emergency procedures : Evacuate unnecessary personnel

6.1.2 For emergency responders

Protective equipment : Equip clean up crew with proper protection Emergency procedures : Rinse area down with water after cleanup.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment

6.3. Methods and material for containment and cleaning up

For containment : Use acid compatible boom to contain material

Methods for cleaning up : Contain spill with acid compatible absorbent material and recover into drums. Rinse

spill area with water

6.4. Reference to other sections : See heading 8. Exposure controls and personal protection

SECTION 7: Handling and storage

7.1. Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating,

drinking, or smoking and when leaving work

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Keep container in a cool, dry, well-ventilated area. Keep

away from heat and direct sunlight

Incompatible products : Strong alkali products may react

Incompatible materials or conditions : No additional information available

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Zinc (7440-66-6)	
NIOSH REL, TWA (mg/m³)	Not established
OSHA PEL, TWA (mg/m³)	Not established
NIOSH IDLH (mg/m³)	Not established

Manganese (7439-96-5)	
NIOSH REL, TWA (mg/m³)	1
OSHA PEL, TWA (mg/m³)	5
NIOSH IDLH (mg/m³)	500

Citric Acid (77-92-9)	
NIOSH REL, TWA (mg/m³)	Not established

OSHA PEL, TWA (mg/m³)	Not established
NIOSH IDLH (mg/m³)	Not established
Nitric Acid (7697-37-2)	
NIOSH REL, TWA (mg/m³)	Not established
OSHA PEL, TWA (mg/m³)	Not established
NIOSH IDLH (mg/m³)	Not established

8.2. **Exposure Controls**

Appropriate engineering controls : pH between 2-3, use caution. Emergency eye wash fountain and safety showers

should be immediately available

Personal protective equipment : Avoid physical exposure



No data available

: No data available



Hand protection : Wear chemically resistant gloves

Eye protection : Chemical goggles or face shield + safety glasses

Skin and body protection Wear suitable protective clothing

Respiratory protection : Avoid breathing fumes

Other information : Do not eat, drink, or smoke during use

SECTION 9: Physical and chemical properties

Physical state : Liquid

: Colored liquid **Appearance** Molecular mass : No data available : Amber to dark brown Color

Odor : Slight to none Odor Threshold : No data available

: 2.0 - 2.3 рН

Relative evaporation rate (butylacetate=1) : No data available Melting point No data available : No data available Freezing point **Boiling point** : No data available Flash point : No data available Auto-ignition temperature No data available : No data available Decomposition temperature Flammability (solid, gas) : No data available : No data available Vapor pressure Relative vapor density at 20°C No data available Density : No data available Solubility : No data available Log Pow : No data available Log Kow : No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available : No data available **Explosive properties**

SECTION 10: Stability and Reactivity

10.1. Reactivity

Oxidizing properties

Explosive limits

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7)

10.3. Possibility of hazardous reactions

May react with bases or strong oxidizers

10.4. Conditions to avoid

Contact with bases or strong oxidizers

10.5. Incompatible materials

Strong bases or strong oxidizers

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity : Not classified

Zinc (7440-66-6)	No data available
Manganese (7439-96-5)	No data available
Citric Acid (77-92-9)	LC50 fishes 1, 440 mg/l; EC50 Daphnia 1, 1534 mg/l
Nitric Acid (7697-37-2)	LC50 rat, 0.8 mg/l; LC50 fishes (96hrs) 72 mg/l

Skin corrosion/irritation : Skin irritant (Category 2)
Serious eye damage/irritation : Eye irritant (Category 2)

Respirator or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated : Not classified

exposure)

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : No additional information available

Symptoms/injuries after skin contact : Causes skin irritation Symptoms/injuries after eye contact : Causes eye irritation

Symptoms/injuries after ingestion : Not classified

Likely routes of exposure : Skin and eye contact

Chronic symptoms : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No data available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of product in accordance with all applicable laws and regulations.

Ecology - waste materials : Avoid release to the environment

SECTION 14: Transport information

In accordance with DOT

Not a dangerous good in sense of transport regulations (US)

Additional information

Other information : No supplementary information available.

Transport by sea

No additional information available

Transport by air

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Listed on the United States Toxic Substance

TSCA	Does not contain any components with a SARA 302 RQ.
Section 302 (EHS) TPQ	Does not contain any components with a section 304 EHS RQ.
Section 304 (EHS) RQ	Does not contain any components with a CERCLA RQ.
CERCLA RQ	Reporting thresholds not exceeded.
Section 313	No additional information available.

Manganese (7439-96-5)

TSCA	Listed on the United States Toxic Substances Act (TSCA) inventory
Section 302 (EHS) TPQ	Does not contain any components with a SARA 302 RQ.
Section 304 (EHS) RQ	Does not contain any components with a section 304 EHS RQ.
CERCLA RQ	Does not contain any components with a CERCLA RQ.
Section 313	Reporting thresholds not exceeded.

Citric Acid (77-92-9)

TSCA	Listed on the United States Toxic Substances Act (TSCA) inventory
Section 302 (EHS) TPQ	Does not contain any components with a SARA 302 RQ.
Section 304 (EHS) RQ	Does not contain any components with a section 304 EHS RQ.
CERCLA RQ	Does not contain any components with a CERCLA RQ.
Section 313	Reporting thresholds not exceeded.

Nitric Acid (7697-37-2)

TSCA	Listed on the United States Toxic Substances Act (TSCA) inventory
Section 302 (EHS) TPQ	Does not contain any components with a SARA 302 RQ.
Section 304 (EHS) RQ	Does not contain any components with a section 304 EHS RQ.
CERCLA RQ	Does not contain any components with a CERCLA RQ.
Section 313	Reporting thresholds not exceeded.

15.2. International regulations

Zinc (7440-66-6)

Canada	All components of this product are on the Canadian Domestic Substances List (DSL)
European Union	No additional information available.

Australia	On the AICS or in compliance with the inventory.
China	On the inventory (IECSC) or in compliance with the inventory.
Other	No additional information available.

Manganese (7439-96-5)

Canada	All components of this product are on the Canadian Domestic Substances List (DSL)
European Union	No additional information available.
Australia	On the AICS or in compliance with the inventory.
China	On the inventory (IECSC) or in compliance with the inventory.
Other	No additional information available.

Citric Acid (77-92-9)

Canada	All components of this product are on the Canadian Domestic Substances List (DSL)
European Union	No additional information available.
Australia	On the AICS or in compliance with the inventory.
China	On the inventory (IECSC) or in compliance with the inventory.
Other	No additional information available.

Nitric Acid (7697-37-2)

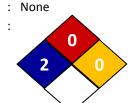
Canada	All components of this product are on the Canadian Domestic Substances List (DSL)
European Union	No additional information available.
Australia	On the AICS or in compliance with the inventory.
China	On the inventory (IECSC) or in compliance with the inventory.
Other	No additional information available.

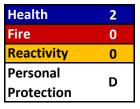
15.3. US State Regulations

No additional information available.

SECTION 16: Other information

Other information NFPA/HMIS





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 investigations to determine the suitability of the information for their particular purposes. In no event shall QualiTech, Inc. 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, howsoever arising, even is QualiTech, Inc. has been advised of the possibility of such damages.