Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/13/2017 *Reviewed on 11/13/2017*

*
1 Identification

· ***Product Identifier***

· ***Trade name: Maxi-Plex***
· ***Relevant identified uses of the substance or mixture and uses advised against:*** Fertilizer
· ***Product Description*** Fertilizer

· ***Details of the Supplier of the Safety Data Sheet:***
· ***Manufacturer/Supplier:***
Grow More
15600 New Century Drive
Gardena, CA 90248
(310) 515-1700
www.growmore.com
· ***Emergency telephone number:*** (310) 515-1700

2 Hazard(s) Identification

· ***Classification of the substance or mixture:***

GHS08 Health hazard

Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 1B	H350	May cause cancer.
Repr. 1	H360	May damage fertility or the unborn child.

GHS07

Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335	May cause respiratory irritation.
Eye Irrit. 2B	H320	Causes eye irritation.
Aquatic Acute 3	H402	Harmful to aquatic life.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

· ***Label elements:***
· ***GHS label elements***
The product is classified and labeled according to the Globally Harmonized System (GHS).
· ***Hazard pictograms:***

GHS07 GHS08

· ***Signal word:*** Danger

· ***Hazard-determining components of labeling:***
EDTA feric sodium complex
cobalt sulphate
· ***Hazard statements:***
H320 Causes eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

(Contd. on page 2)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/13/2017 *Reviewed on 11/13/2017*

Trade name: Maxi-Plex

H317 May cause an allergic skin reaction.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H335 May cause respiratory irritation.
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

· ***Precautionary statements:***

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+P341	If inhaled: If breathing is difficult, 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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***Unknown acute toxicity:***
This value refers to knowledge of known, established toxicological or ecotoxicological values.
31.5 % of the mixture consists of component(s) of unknown toxicity.

· ***Classification system:*** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· ***NFPA ratings (scale 0 - 4)***

Health = 1
Fire = 0
Reactivity = 0

· ***HMIS-ratings (scale 0 - 4)***

Health = *1
Fire = 0
Physical Hazard = 0

· ***Hazard(s) not otherwise classified (HNOC):*** None known

(Contd. on page 3)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/13/2017 Reviewed on 11/13/2017

Trade name: Maxi-Plex

3 Composition/Information on Ingredients

· **Non-hazardous components:**

15954-98-0	Zinc EDTA	15-35%
14402-88-1	Ethylenediaminetetraacetic acid disodium magnesium salt hydrate	15-35%

· **Chemical characterization: Mixtures**
· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

CAS: 15375-84-5	Mn EDTA, Diammonium Salt Eye Irrit. 2B, H320	25-50%
CAS: 15708-41-5	EDTA feric sodium complex Acute Tox. 4, H332; STOT SE 3, H335	25-50%
CAS: 14025-15-1	Copper EDTA Acute Tox. 4, H302	15-35%
CAS: 10043-35-3 RTECS: ED 4550000	Boric Acid Repr. 1B, H360	2-12%
CAS: 10124-43-3	cobalt sulphate Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1B, H350; Repr. 1B, H360; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317	≤2.5%

· **Additional information:**
The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

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4 First-Aid Measures

· **Description of first aid measures:**
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:**
Wash with soap and water.
If skin irritation occurs, consult a doctor.
· **After eye contact:**
Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes.
Seek immediate medical advice.
· **After swallowing:** If swallowed and symptoms occur, consult a doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Fire-Fighting Measures

· **Extinguishing media:**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture:** No further relevant information available.
· **Advice for firefighters:**
· **Protective equipment:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

(Contd. on page 4)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/13/2017 Reviewed on 11/13/2017

Trade name: Maxi-Plex

6 Accidental Release Measures

· ***Personal precautions, protective equipment and emergency procedures:*** Not required.
· ***Environmental precautions:*** Do not allow to enter sewers/surface or ground water.
· ***Methods and material for containment and cleaning up:***
Dispose of the collected material according to regulations.
· ***Reference to other sections:***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· ***Protective Action Criteria for Chemicals***

· ***PAC-1:***		
10043-35-3	Boric Acid	6 mg/m³
7631-95-0	Sodium Molybdate	3.2 mg/m³
10124-43-3	cobalt sulphate	0.16 mg/m³

· ***PAC-2:***		
10043-35-3	Boric Acid	23 mg/m³
7631-95-0	Sodium Molybdate	17 mg/m³
10124-43-3	cobalt sulphate	14 mg/m³

· ***PAC-3:***		
10043-35-3	Boric Acid	830 mg/m³
7631-95-0	Sodium Molybdate	100 mg/m³
10124-43-3	cobalt sulphate	84 mg/m³

7 Handling and Storage

· ***Handling***
· ***Precautions for safe handling:*** No special precautions are necessary if used correctly.
· ***Information about protection against explosions and fires:*** No special measures required.

· ***Conditions for safe storage, including any incompatibilities:***
· ***Storage***
· ***Requirements to be met by storerooms and receptacles:*** Store in a cool, dry place.
· ***Information about storage in one common storage facility:*** Not required.
· ***Further information about storage conditions:*** None.
· ***Specific end use(s):*** No further relevant information available.

* 8 Exposure Controls/Personal Protection

· ***Additional information about design of technical systems:*** No further data; see section 7.

· ***Control parameters:***
· ***Components with occupational exposure limits:***
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

15708-41-5 EDTA feric sodium complex	
STEL	Short-term value: 10 mg/m³
TWA	Short-term value: 10 mg/m³

(Contd. on page 5)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/13/2017 *Reviewed on 11/13/2017*

Trade name: Maxi-Plex

10043-35-3 Boric Acid	
TLV	Short-term value: 6* mg/m³ Long-term value: 2* mg/m³ *as inhalable fraction
10124-43-3 cobalt sulphate	
PEL	Long-term value: 0.1* mg/m³ as Co; *for metal dust and fume
REL	Long-term value: 0.05 mg/m³ as Co; metal dust & fume
TLV	Long-term value: (0.02) NIC-0.02* mg/m³ as Co, *inhalable; NIC-Skin,DSEN,RSEN,(BEI)

· ***Additional information:*** The lists that were valid during the creation of this SDS were used as basis.

· ***Exposure controls:***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:*** Wash hands before breaks and at the end of work.
· ***Breathing equipment:*** Not required.
· ***Protection of hands:***

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Select glove material based on penetration times, rates of diffusion and degradation.

· ***Material of gloves:***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· ***Penetration time of glove material:***
The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.
· ***Eye protection:***

Safety glasses

· ***Limitation and supervision of exposure into the environment:***
Keep away from drains, surface and ground waters.
Avoid release into the environment.

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9 Physical and Chemical Properties

· ***Information on basic physical and chemical properties***
· ***General Information***
· ***Appearance:***

Form:	Powder
Color:	Light Blue/Light Beige
· ***Odor:***	Odorless
· ***Odor threshold:***	Not determined.

(Contd. on page 6)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/13/2017 Reviewed on 11/13/2017

Trade name: Maxi-Plex

· **pH-value:** Not applicable.

· **Change in condition**
Melting point/Melting range: Not determined.
Boiling point/Boiling range: Not determined.

· **Flash point:** None

· **Flammability (solid, gaseous):** Not determined.

· **Ignition temperature:** >200 °C (>392 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**
Lower: Not determined.
Upper: Not determined.

· **Vapor pressure:** Not applicable.

· **Density:**
Relative density: Not determined.
Vapor density: Not applicable.
Evaporation rate: Not applicable.

· **Solubility in / Miscibility with:**
Water: Insoluble.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**
Dynamic: Not applicable.
Kinematic: Not applicable.

· **Solvent content:**
VOC content: 0.00 %

· **Other information:** No further relevant information available.

10 Stability and Reactivity

· **Reactivity:** No further relevant information available.
· **Chemical stability:** Stable under normal conditions.
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions:** No dangerous reactions known.
· **Conditions to avoid:** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

· **Information on toxicological effects:**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
15708-41-5 EDTA feric sodium complex		
Oral	LD50	>2,000 mg/kg (Rat)

(Contd. on page 7)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/13/2017 Reviewed on 11/13/2017

Trade name: Maxi-Plex

Dermal	LD50	>2,000 mg/kg (Rat)
Inhalative	LC50/4 h	>2.75 mg/l (Rat)
	LC50/96 hours	>100 mg/l (Trout)
14025-15-1 Copper EDTA		
Oral	LD50	1,740 mg/kg (Rat)
10043-35-3 Boric Acid		
Oral	LD50	2,660 mg/kg (Rat)

· ***Primary irritant effect:***
· ***On the skin:***
Irritating effect
May cause an allergic skin reaction.
· ***On the eye:*** Irritating effect.
· ***Additional toxicological information:***

· ***Carcinogenic categories:***
· ***IARC (International Agency for Research on Cancer):***
Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans
Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

10124-43-3	cobalt sulphate	2B

· ***NTP (National Toxicology Program):***
None of the ingredients are listed.

· ***OSHA-Ca (Occupational Safety & Health Administration):***
None of the ingredients are listed.

12 Ecological Information

· ***Toxicity:***
· ***Aquatic toxicity:***
Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

15708-41-5 EDTA feric sodium complex	
EC50	100.9 mg/l (Daphnia)
14025-15-1 Copper EDTA	
EC50	>500 mg/l (Daphnia)

· ***Persistence and degradability:*** No further relevant information available.
· ***Behavior in environmental systems:***
· ***Bioaccumulative potential:*** No further relevant information available.
· ***Mobility in soil:*** No further relevant information available.
· ***Additional ecological information:***
· ***General notes:***
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.

(Contd. on page 8)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/13/2017 Reviewed on 11/13/2017

Trade name: Maxi-Plex

Danger to drinking water if even extremely small quantities leak into the ground.
· ***Results of PBT and vPvB assessment:***
· ***PBT:*** Not applicable.
· ***vPvB:*** Not applicable.
· ***Other adverse effects:*** No further relevant information available.

13 Disposal Considerations

· ***Waste treatment methods:***
· ***Recommendation:***
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Observe all federal, state and local environmental regulations when disposing of this material.

· ***Uncleaned packagings***
· ***Recommendation:*** Disposal must be made according to official regulations.

14 Transport Information

· ***UN-Number:***
· ***DOT, ADR/ADN, ADN, IMDG, IATA*** Non-Regulated Material
· ***UN proper shipping name:***
· ***DOT, ADR/ADN, ADN, IMDG, IATA*** Non-Regulated Material
· ***Transport hazard class(es):***

· ***DOT, ADR/ADN, ADN, IMDG, IATA***
· ***Class:*** Non-Regulated Material
· ***Packing group:***
· ***DOT, ADR/ADN, IMDG, IATA*** Non-Regulated Material
· ***Environmental hazards:*** Not applicable.
· ***Special precautions for user:*** Not applicable.
· ***Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:*** Not applicable.
· ***UN "Model Regulation":*** Non-Regulated Material

15 Regulatory Information

· ***Safety, health and environmental regulations/legislation specific for the substance or mixture:***
· ***SARA (Superfund Amendments and Reauthorization):***

· ***Section 355 (extremely hazardous substances):***
None of the ingredients are listed.

· ***Section 313 (Specific toxic chemical listings):***	
10124-43-3	cobalt sulphate

· ***TSCA (Toxic Substances Control Act):***	
15375-84-5	Mn EDTA, Diammonium Salt
15708-41-5	EDTA feric sodium complex
14402-88-1	Ethylenediaminetetraacetic acid disodium magnesium salt hydrate
14025-15-1	Copper EDTA
10043-35-3	Boric Acid
7631-95-0	Sodium Molybdate
10124-43-3	cobalt sulphate

(Contd. on page 9)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/13/2017 Reviewed on 11/13/2017

Trade name: Maxi-Plex

· ***TSCA new (21st Century Act) (Substances not listed)***
· ***California Proposition 65:***

· ***Chemicals known to cause cancer:***	
10124-43-3	cobalt sulphate

· ***Chemicals known to cause reproductive toxicity for females:***
None of the ingredients are listed.

· ***Chemicals known to cause reproductive toxicity for males:***
None of the ingredients are listed.

· ***Chemicals known to cause developmental toxicity:***
None of the ingredients are listed.

· ***New Jersey Right-to-Know List:***
None of the ingredients are listed.

· ***New Jersey Special Hazardous Substance List:***
None of the ingredients are listed.

· ***Pennsylvania Right-to-Know List:***
None of the ingredients are listed.

· ***Pennsylvania Special Hazardous Substance List:***
None of the ingredients are listed.

· ***Carcinogenic categories:***

· ***EPA (Environmental Protection Agency):***		
10043-35-3	Boric Acid	I (oral)

· ***TLV (Threshold Limit Value established by ACGIH):***		
10043-35-3	Boric Acid	A4

· ***NIOSH-Ca (National Institute for Occupational Safety and Health):***
None of the ingredients are listed.

· ***GHS label elements***
The product is classified and labeled according to the Globally Harmonized System (GHS).
· ***Hazard pictograms:***

GHS07 GHS08

· ***Signal word:*** Danger

· ***Hazard-determining components of labeling:***
EDTA feric sodium complex
cobalt sulphate
· ***Hazard statements:***
H320 Causes eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H335 May cause respiratory irritation.
H402 Harmful to aquatic life.

(Contd. on page 10)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/13/2017 *Reviewed on 11/13/2017*

Trade name: Maxi-Plex

H412 Harmful to aquatic life with long lasting effects.

· ***Precautionary statements:***

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+P341	If inhaled: If breathing is difficult, 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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***National regulations:***

None of the ingredients are listed.

· ***Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· ***Date of preparation / last revision:*** 11/13/2017 / 1

· ***Abbreviations and acronyms:***

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

(Contd. on page 11)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/13/2017 *Reviewed on 11/13/2017*

Trade name: Maxi-Plex

NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 1B: Carcinogenicity – Category 1B
Repr. 1: Reproductive toxicity – Category 1
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **** Data compared to the previous version altered.***