

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 03/05/2026

Revised on 03/05/2026

1 Identification

- **Product Identifier**
- **Trade Name:** Yield Maker
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** Use for agriculture (nutrients/trace elements for plants)
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
AgriTec International
3329 N Interstate 35
Gainesville, TX 76240
P: 833-247-4832
<https://www.agritecint.com/>
info@agritechint.com
- **Emergency telephone number:** 833-247-4832

2 Hazard(s) Identification

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



Acute toxicity - oral 4 H302 Harmful if swallowed.

- **Label elements:**
- **Hazard pictograms:**



- **Signal word:** Warning
- **Hazard-determining components of labeling:**
Monocarbamide Ammonium Nitrate
boric acid
- **Hazard statements:**
H302 Harmful if swallowed.
- **Precautionary statements:**
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
P330 Rinse mouth.
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.
2.1 % of the mixture consists of component(s) of unknown toxicity.
- **Information pertaining to particular dangers for man and environment:**
- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

(Contd. on page 2)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

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Trade Name: Yield Maker

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	0	Fire = 0
REACTIVITY	0	Physical Hazard = 0

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

· **Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/Information on Ingredients

· **Chemical characterization: Substance**

· **Description:**

Mixture of substances listed with non-hazardous additions and/or components that are less than listing threshold. All non-hazardous, components listed under threshold, and listed component total 100%.

· **Dangerous Components:**

CAS: 15978-77-5	Monocarbamide Ammonium Nitrate	≤2.5%
	⚠ Acute toxicity - oral 1, H300; ⚠ Skin irritation 2, H315	
CAS: 7757-79-1	Potassium Nitrate	≤2.5%
RTECS: TT 3700000	⚠ Oxidizing solids 2, H272	
CAS: 10043-35-3	boric acid	≤2.5%
RTECS: ED 4550000	⚠ Reproductive toxicity 1B, H360	

· **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.

4 First-Aid Measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:** In case of unconsciousness place patient stably in the side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

If eye irritation occurs, consult a doctor.

(Contd. on page 3)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 03/05/2026

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Trade Name: Yield Maker

· **After swallowing:**

Do not induce vomiting; immediately call for medical help.

If swallowed and symptoms occur, consult a 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:** Treat symptomatically.

5 Fire-Fighting Measures

· **Extinguishing media**

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· **For safety reasons unsuitable extinguishing agents:** No further relevant information.

· **Special hazards arising from the substance or mixture:** No further relevant information available.

· **Advice for firefighters**

· **Special protective equipment for firefighters:**

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.

6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures:** Not required

· **Environmental precautions:** Dilute with plenty of water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

· **PAC-1:**

7757-79-1	Potassium Nitrate	11 mg/m3
7785-87-7	Manganese Sulphate	8.2 mg/m3
10043-35-3	boric acid	6.0 mg/m3
7791-13-1	Cobalt(II) chloride hexahydrate	0.24 mg/m3

· **PAC-2:**

7757-79-1	Potassium Nitrate	120 mg/m3
7785-87-7	Manganese Sulphate	14 mg/m3
10043-35-3	boric acid	21 mg/m3
7791-13-1	Cobalt(II) chloride hexahydrate	26 mg/m3

· **PAC-3:**

7757-79-1	Potassium Nitrate	740 mg/m3
7785-87-7	Manganese Sulphate	430 mg/m3
10043-35-3	boric acid	130 mg/m3
7791-13-1	Cobalt(II) chloride hexahydrate	150 mg/m3

· **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.

(Contd. on page 4)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 03/05/2026

Revised on 03/05/2026

Trade Name: Yield Maker

7 Handling and Storage

- **Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **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:**
Do not store near strong oxidizers
Store in the original container.
- **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

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

10043-35-3 boric acid

TLV	Short-term value: 6* mg/m ³ Long-term value: 2* mg/m ³ *as inhalable fraction, A4
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- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Appropriate engineering controls** No further data; see section 7.
- **Personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required
- **Protection of hands:** Not required
- **Material of gloves:** Not applicable.
- **Penetration time of glove material:** Not applicable.
- **Eye protection:**



Safety glasses

- **Limitation and supervision of exposure into the environment:** None

(Contd. on page 5)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 03/05/2026

Revised on 03/05/2026

Trade Name: Yield Maker

9 Physical and Chemical Properties

· Information on basic physical and chemical properties

· General Information

· Physical state

Liquid

· Color:

Dark brown

· Odor:

Earthy

· Odor threshold:

Not determined

· Melting point/Melting range:

Not determined.

· Boiling point/Boiling range:

Not determined.

· Flammability:

Not applicable

· Explosion limits:

· Lower:

Not determined

· Upper:

Not determined

· Flash point:

None

· Auto igniting:

Not applicable

· Decomposition temperature:

Not determined

· pH-value:

Not determined.

· Viscosity:

· Kinematic:

Not determined

· Dynamic:

Not determined

· Solubility in / Miscibility with:

· Water:

Fully miscible.

· Partition coefficient (n-octanol/water):

Not determined

· Vapor pressure:

Not determined

· Vapor pressure:

· Density:

Not determined

· Relative density:

Not determined

· Vapor density:

Not determined

· Particle characteristics

Not applicable

· Other information:

· Appearance:

· Form:

Liquid

· Important information on protection of health and environment, and on safety.

· Ignition temperature:

Product is not self-igniting.

· Danger of explosion:

Product does not present an explosion hazard.

· Solvent content:

· VOC content:

0.00 %

· Change in condition

· Evaporation rate:

Not determined

10 Stability and Reactivity

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

· **Chemical stability:** Product is 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:** Avoid strong oxidizers, acids and alkalis.

(Contd. on page 6)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 03/05/2026

Revised on 03/05/2026

Trade Name: Yield Maker

- **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:**

15978-77-5 Monocarbamide Ammonium Nitrate

Inhalative LC50/4 h 103 mg/l (Daphnia)

7757-79-1 Potassium Nitrate

Oral LD50 3,750 mg/kg (Rat)

10043-35-3 boric acid

Oral LD50 2,660 mg/kg (Rat)

· **Primary irritant effect:**

· **On the skin:** No irritating effect.

· **On the eye:** No irritating effect.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Harmful

· **Interactive effects** No interactive effects between components are known.

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**

7791-13-1 Cobalt(II) chloride hexahydrate

2B

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

· **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

12 Ecological Information

· **Toxicity:**

· **Aquatic toxicity:**

7757-79-1 Potassium Nitrate

EC50 226 mg/l (Water flea)

· **Persistence and degradability:** No further relevant information available.

· **Bioaccumulative potential:** No further relevant information available.

· **Mobility in soil:** No further relevant information available.

· **Results of PBT and vPvB assessment:**

· **PBT:** Not applicable

· **vPvB:** Not applicable

(Contd. on page 7)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 03/05/2026

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Trade Name: Yield Maker

- **Other adverse effects:**
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.

13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport Information

- **UN-Number:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name:**
- **DOT, IMDG, IATA** Non-Regulated Material
- **ADR/ADN** UN-
- **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
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable
- **Special precautions for user:** Not applicable
- **UN "Model Regulation":** Non-Regulated Material

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
No further relevant information available.
- **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

7757-79-1	Potassium Nitrate
7785-87-7	Manganese Sulphate
7446-19-7	Zinc sulfate monohydrate
7791-13-1	Cobalt(II) chloride hexahydrate

· **TSCA (Toxic Substances Control Act):**

7757-79-1	Potassium Nitrate	ACTIVE
7785-87-7	Manganese Sulphate	ACTIVE
10043-35-3	boric acid	ACTIVE

(Contd. on page 8)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

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Trade Name: Yield Maker

· Hazardous Air Pollutants		
7785-87-7	Manganese Sulphate	
7791-13-1	Cobalt(II) chloride hexahydrate	
· California Proposition 65:		
· Chemicals known to cause cancer:		
None of the ingredients are listed.		
· 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:		
7757-79-1	Potassium Nitrate	
· New Jersey Special Hazardous Substance List:		
None of the ingredients are listed.		
· Pennsylvania Right-to-Know List:		
7757-79-1	Potassium Nitrate	
· Pennsylvania Special Hazardous Substance List:		
None of the ingredients are listed.		
· Carcinogenic categories:		
· EPA (Environmental Protection Agency):		
7785-87-7	Manganese Sulphate	D
10043-35-3	boric acid	I (oral)
7446-19-7	Zinc sulfate monohydrate	D, I, II
· 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:



· Signal word: Warning

· Hazard-determining components of labeling:

Monocarbamide Ammonium Nitrate
boric acid

(Contd. on page 9)

Safety Data Sheet

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Trade Name: Yield Maker

• **Hazard statements:**

H302 Harmful if swallowed.

• **Precautionary statements:**

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

• **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** 03/05/2026

• **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

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

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

Oxidizing solids 2: Oxidizing solids – Category 2

Acute toxicity - oral 1: Acute toxicity – Category 1

Acute toxicity - oral 4: Acute toxicity – Category 4

Skin irritation 2: Skin corrosion/irritation – Category 2

Reproductive toxicity 1B: Reproductive toxicity – Category 1B

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

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