



Safety Data Sheet

Cell Force® 3-0-0

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03
Canadian Workplace Hazardous Material Information System (WHMIS) 2015
Mexico NOM-018-STPS-2000; NOM-018-STPS-2015
GHS (Globally Harmonized System)

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

1.1. Product identifier

Product name Cell Force® 3-0-0
Pure substance/mixture Mixture

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

Recommended use Liquid Fertilizer.
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Manufacturer Miller Chemical and Fertilizer, LLC
120 Radio Rd
Hanover, PA 17331
Tel.: 717-632-8921
Fax.: 717-646-1104

Internet <http://www.millerchemical.com>

E-mail info@millerchemical.com

1.4. Emergency telephone number CHEMTREC: +1 800 424 9300 or International 1+703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Physical Hazards Not classified.

Health Hazards Eye irritation Cat. 2; H319

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Repr. Tox. Cat. 1B; H360

Environmental Hazard

Not classified.

2.2. Label elements**Symbols/Pictograms****Signal Word**

Danger

Hazard Statements

H319 - Causes serious eye irritation

H360 - May damage fertility or the unborn child

Precautionary Statements**Prevention**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Response

IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Storage

Store locked up

Disposal

Dispose of contents/containers in accordance with local regulations

Additional information

Not applicable

Hazards not otherwise classified (HNOC)

None known

SECTION 3: Composition/information on ingredients**Pure substance/mixture**

Mixture

Chemical Name	CAS NUMBER:	Weight-%
Proprietary Calcium Based Compounds	Proprietary	10 - < 30
Boric acid	10043-35-3	0.5 - < 1.5

Additional information

*The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First aid measures**4.1. Description of first aid measures**

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General Advice

When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. Get medical attention.

Ingestion

DO NOT INDUCE VOMITING. If vomiting occurs naturally, reduce the risk of aspiration by leaning their body forward. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation

Remove to fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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

Causes serious eye irritation.

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

Treatment should be symptomatic and supportive. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable Extinguishing Media**

Water spray (fog).

Unsuitable Extinguishing Media

None known.

5.2. Special hazards arising from the substance or mixture

None known.

5.3. Advice for firefighters**Special protective equipment for firefighters**

None known.

Fire-fighting measures

Water mist may be used to cool closed containers. No special fire protection measures are necessary. Standard procedure for chemical fires.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and**

Keep unauthorized personnel away. Ensure adequate ventilation. Use personal protection recommended in Section 8. In case of fire: Stop leak if safe to do so.

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emergency procedures**For non-emergency personnel** Keep unauthorized personnel away.**For emergency responders** Keep unauthorized personnel away. Use personal protection recommended in Section 8.**6.2. Environmental precautions** Avoid runoff to waterways and sewers.

6.3. Methods and material for containment and cleaning up CELL FORCE® may promote eutrophication in water ways. Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to waterways and sewers. It may be necessary to remove contaminated soil. If acidity (low pH) is a problem, neutralize with hydrated lime, soda ash, or sodium bicarbonate. If alkalinity (high pH) is a problem, neutralize with dilute acetic acid or dilute hydrochloric (muriatic) acid. If required, notify state and local authorities.

6.4. Reference to other sections See Section 8 for exposure controls and personal protection. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact.

7.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed and dry. Store away from incompatible materials. Keep out of reach of children.

7.3. Specific end use(s) See Section 1.2.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits****Proprietary Calcium Based Compounds -**

OSHA Not established

Boric acid - 10043-35-3

OSHA Not established

ACGIH 6 mg/m³Canada - British Columbia - OEL- 6 mg/m³

STELs

Canada - Ontario - OEL - STEVs 6 mg/m³ STELCanada - Ontario - OEL - TWA EVs 2 mg/m³**Biological Limit Values** No information available**8.2. Exposure controls**

Engineering Measures Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Use exhaust ventilation to keep airborne concentrations below exposure limits. In case of insufficient ventilation, wear suitable respiratory equipment.

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Personal protective equipment

Eye/Face Protection	Wear safety glasses with side shields (or goggles). Always wear eye protection when working with chemicals.
Skin and Body Protection	Wear suitable protective clothing.
Hand Protection	For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn. Nitrile rubber
Respiratory Protection	In case of inadequate ventilation wear respiratory protection.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental Exposure Controls	Dispose of in accordance with local regulations.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance:**

Physical State	Liquid
Color	Light brown to Brown
Odor	Mild
pH	4.0 - 5.0
Melting point / Freezing point	Not applicable
Boiling Point / Boiling Range	>= 212 °F (100 °C)
Freezing Point	<32 °F (0 °C)
Flash Point	Not determined
Evaporation Rate	Not determined
Flammability (solid, gas)	Not determined
Vapor Pressure	Not determined
Vapor Density	Not determined
Density	No data available
Water Solubility	Soluble
Partition coefficient	No information available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No information available.
Kinematic viscosity	No data available
Oxidizing Properties	Not applicable
Particle Size	No information available
Specific Gravity	1.11 - 1.12 g/mL @ 68°F (20°C)
Percent Volatile	Not determined
VOC Content (%)	Not applicable

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

No data available

9.2.2. Other safety characteristics

Not applicable

SECTION 10: Stability and reactivity**10.1. Reactivity**

Stable under normal conditions

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10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	Hazardous polymerization does not occur
10.4. Conditions to avoid	Incompatible materials
10.5. Incompatible materials	Strong oxidizing agents
10.6. Hazardous decomposition products	Phosphorus oxides

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SECTION 11: Toxicological information

General Information Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Information on Likely Routes of Exposure

Inhalation	Avoid inhalation of the product
Skin	Avoid contact with skin and clothing
Eyes	Avoid contact with eyes
Ingestion	Do not induce vomiting without medical advice If conscious, wash out mouth and give water to drink

11.1. Information on toxicological effects**Proprietary Calcium Based Compounds**

Serious eye damage/eye irritation Causes serious eye irritation

Boric acid

LD50s and LC50s	2120 mg/m ³ Inhalation LC50 Rat 4 h 2.12 mg/L Inhalation LC50 Rat 4 h
Oral LD50	LD50 - Route: Oral - Species: Rat (Male) > 2600 mg/kg bw - Notes: OECD 401 (UE B.1 Method)
Dermal LD50	LD50 - Route: Dermal - Species: Rabbit > 2000 mg/kg bw - Notes: FIFRA (40 CFR 163)
Group 2A - Probably Carcinogenic to Humans NTP (National Toxicology Program)	Monograph 53 [1991]
Serious eye damage/eye irritation	Male Rat - Not Tested; Female Rat - Not Tested; Male Mice - No Evidence; Female Mice - No Evidence
Skin Sensitization	Not classified.
Reproductive Toxicity	Not classified. Presumed human reproductive toxicant, Category 1B

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Acute Toxicity	No data available
Serious eye damage/eye irritation	Causes serious eye irritation
Skin Corrosion/Irritation	No data available
Skin Sensitization	No data available
Mutagenicity	No data available
Reproductive Toxicity	Boric acid. Presumed human reproductive toxicant, Category 1B.
Carcinogenicity	No data available

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Specific target organ toxicity No data available
- Single exposure

Specific target organ toxicity No data available
- Repeated exposure

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties No endocrine disruptors present in concentrations $\geq 0.1\%$

11.2.2. Other information Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Boric acid

Aquatic toxicity

Not considered to be harmful to aquatic life

Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 79.7 mg/l - Duration h: 96 - Notes:

Pimephalespromelas (freshwater fish)

Endpoint: LC50 - Species: Fish 74 mg/l - Duration h: 96 - Notes: Dab L.

limanda(marine fish)

Endpoint: LC50 - Species: Aquatic invertebrates - Duration h: 4d - Notes: 64 - 544 mg/L

Endpoint: LC50 - Species: Aquatic invertebrates - Duration h: 48 - Notes: 91 - 165 mg/L

Endpoint: NOEC - Species: Aquatic invertebrates 103 mg/l - Duration h: 4d

Endpoint: EC50 - Species: Algae - Duration h: 72 - Notes: 40.2 - 66 mg/L

Endpoint: NOEC - Species: Algae - Duration h: 72 - Notes: 17.5 - 27.9 mg/L

Endpoint: EC10 - Species: Algae - Duration h: 72 - Notes: 24.5 - 50.7 mg/L

Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish - Duration h: 32d - Notes: 11.2 - 44.5 mg/L

Endpoint: LOEC - Species: Fish 23 mg/l - Duration h: 32d

Endpoint: NOEC - Species: Fish 6.4 mg/l - Duration h: 34d

Endpoint: NOEC - Species: Aquatic invertebrates - Duration h: 42d - Notes: 6.6 - 25.9mg/L

Endpoint: NOEC - Species: Aquatic invertebrates - Duration h: 28d - Notes: 16.6 - 43.3mg/L

Endpoint: NOEC - Species: Aquatic invertebrates - Duration h: 21d - Notes: 6 - 34.2mg/L

Endpoint: NOEC - Species: Aquatic invertebrates - Duration h: 14d - Notes: 13.8 - 14.3mg/L

Endpoint: NOEC - Species: Aquatic invertebrates 33.1 mg/l - Duration h: 12d

Persistence / Degradability

There is no need to carry out the study if the substance is inorganic.

Bioaccumulative potential:

Not relevant for inorganic substances

Mobility

Soluble in water and permeable through normal soil. - Notes: Log Pow: - 1.09 (22°C)

WGK Classification (AwSV)

315 WGK: 1

12.2. Persistence and

No data available

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degradability**12.3. Bioaccumulative potential** No data available**12.4. Mobility in soil** No data available**12.5. Results of PBT and vPvB assessment** No data available**12.6. Endocrine disrupting properties** No endocrine disruptors present in concentrations $\geq 0.1\%$ **12.7. Other Adverse Effects** None known**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal Methods** If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Disposal should be in accordance with applicable regional, national and local laws and regulations.**Contaminated Packaging** Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.**SECTION 14: Transport information****Mode of Transportation (Road, Water, Air, Rail)**

TDG -Canada	Not regulated
DOT	Not regulated
ADR	Not regulated
RID	Not regulated
ADN	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.1. UN number or ID number None**14.2. UN proper shipping name** None**14.3. Transport hazard class(es)** None**14.4. Packing group** None**14.5. Environmental hazards** No**14.6. Special precautions for user** Not applicable**14.7. Maritime transport in bulk according to IMO instruments**
Not applicable

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SECTION 15: Regulatory information**Global Inventories**

Pure substance/mixture

Mixture

Chemical Name	CAS Number	Canada (DSL)	Mexico	TSCA: United States
Proprietary Calcium Based Compounds	--	Y	Y	A
Boric acid	10043-35-3	Y	Y	A

Y: Complies ; A: Active ; - / N: Exempt / Not Listed

EPA**CERCLA**

Not listed

Boric acid**SARA 302**

This material does not contain any components with a section 302 EHS TPQ.

SARA 304

Not Listed

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazardous Categorization

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Not regulated

CAA (Clean Air Act)

Not regulated

U.S. State Right-to-Know Regulations

Chemical Name	CAS Number	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Proprietary Calcium Based Compounds	--	N	N	N	N	N
Boric acid	10043-35-3	N	N	N	N	N

Y: Listed ; N: Not Listed

CANADA**WHMIS**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

Boric acid

H360

SECTION 16: Other information

Prepared by

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1.1 NA

Reason for Version

New Format. OSHA (Occupational Safety and Health Administration of the US Department of Labor).

Abbreviations and acronyms

OSHA (Occupational Safety and Health Administration of the US Department of Labor)
WHMIS (Workplace Hazardous Materials Information System)
GHS (Globally Harmonized System)
IARC (International Agency for Research on Cancer)
PPE (Personal Protection Equipment)
TWA (Time-Weighted Average)
TLV® (Threshold Limit Value)
STEL (Short Term Exposure Limit)
RQ (Reportable Quantity) (RQ/% in mixture)
DOT (Department of Transportation)
TDG (Transport of Dangerous Goods) Canada
IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods)
ICAO (International Civil Aviation Organization)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet