

SAFETY DATA SHEET

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

1.1. Product identifier

Product Name CGB1

Product Description 1000 µg/mL Boron
Pure substance/mixture Mixture
Contains Boric acid (H₃BO₃)

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

Recommended Use Laboratory chemicals

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Company

Inorganic Ventures
300 Technology Drive
Christiansburg, VA 24073
web: www.inorganicventures.com

1.4. Emergency telephone number

Chemtrec 1-800-424-9300 (North America)

Chemtrec +1 703-741-5970 (International)

Europe	See above
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

*Classification according to
Regulation (EC) No. 1272/2008 [CLP]*

GHS

Reproductive toxicity	Category 1B - (H360FD)
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2.2. Label elements

Product identifier
Contains Boric acid (H₃BO₃)



Signal word
Danger

Hazard statements

H360FD - May damage fertility. May damage the unborn child

Precautionary Statements - EU (§28, 1272/2008)

P202 - Do not handle until all safety precautions have been read and understood

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

2.3. Other hazards

Other hazards

Causes mild skin irritation

No information available

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable

Chemical name	EC No. (Index No.)	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Boric acid (H3BO3)	233-139-2 (005-007-00-2)	10043-35-3	0.56	Repr. 1B (H360FD)	No data available
Ammonium hydroxide	215-647-6 (007-001-01-2) (007-001-00-5)	1336-21-6	0.15	Skin Corr. 1B (H314) Aquatic Acute 1 (H400)	No data available

Full text of H- and EUH-phrases: see section 16**SECTION 4: First aid measures****4.1. Description of first aid measures****General Advice**

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Inhalation

Remove to fresh air.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Ingestion

Immediate medical attention is required. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed**Most Important Symptoms and Effects**

Asthma-like and/ or skin allergy-like symptoms.

4.3. Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically

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

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment as required. Do not get in eyes, on skin, or on clothing.

Advice for emergency responders

Ensure adequate ventilation.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up**Methods for Containment**

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

See Section 12: ECOLOGICAL INFORMATION.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Ensure adequate ventilation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

Exposure Limits

Chemical name	European Union		United Kingdom		France		Spain		Germany DFG	
Boric acid (H3BO3) 10043-35-3							TWA-(VLA-ED): 2 mg/m³; STEL (VLA-EC): 6 mg/m³;		TWA-MAK: 10 mg/m³; I(1); inhalable fraction	
Ammonium hydroxide 1336-21-6	TWA: 20 ppm; TWA: 14 mg/m³; STEL: 50 ppm; STEL: 36 mg/m³;		TWA: 25 ppm; TWA: 18 mg/m³; STEL: 35 ppm; STEL: 25 mg/m³;		TWA-VME (restrictif): 10 ppm; TWA-VME (restrictif): 7 mg/m³; STEL-VLCT (restrictif): 20 ppm; STEL-VLCT (restrictif): 14 mg/m³;		TWA-(VLA-ED): 20 ppm; TWA-(VLA-ED): 14 mg/m³; STEL (VLA-EC): 50 ppm; STEL (VLA-EC): 36 mg/m³;			
Chemical name	Italy MDLPS		Portugal		Netherlands		Finland		Denmark	
Boric acid (H3BO3) 10043-35-3			TWA (VLE-MP): 2 mg/m³; inhalable fraction STEL (VLE-CD): 6 mg/m³; inhalable fraction							
Ammonium hydroxide 1336-21-6	TWA: 20 ppm; TWA: 14 mg/m³; STEL: 50 ppm; STEL: 36 mg/m³;		TWA (VLE-MP): 20 ppm; TWA (VLE-MP): 14 mg/m³; STEL (VLE-CD): 50 ppm; STEL (VLE-CD): 36 mg/m³;		TWA: 20 ppm; TWA: 14 mg/m³; STEL: 50 ppm; STEL: 36 mg/m³;		TWA: 20 ppm; TWA: 14 mg/m³; STEL: 50 ppm; STEL: 36 mg/m³;		TWA: 20 ppm; TWA: 14 mg/m³; STEL: 36 mg/m³; STEL: 50 ppm;	
Chemical name	Sweden		Austria	Switzerland	Poland		Norway		Ireland	
Boric acid (H3BO3) 10043-35-3				TWA-MAK: 1.8 mg/m³; inhalable dust STEL-KZGW: 1.8 mg/m³; inhalable dust					TWA: 2 mg/m³; STEL: 6 mg/m³ (calculated);	
Ammonium hydroxide 1336-21-6			TWA-TMW: 20 ppm; TWA-TMW: 14 mg/m³; STEL-KZGW: 50 ppm (4 X 15 min); STEL-KZGW: 36 mg/m³ (4 X 15 min);	TWA-MAK: 20 ppm; TWA-MAK: 14 mg/m³; STEL-KZGW: 40 ppm; STEL-KZGW: 28 mg/m³;	TWA-NDS: 14 mg/m³; STEL-NDSch: 28 mg/m³;		TWA: 15 ppm; TWA: 11 mg/m³; TWA: 20 ppm; STEL: 50 ppm (value from the regulation); STEL: 36 mg/m³ (value from the regulation); STEL: 30 ppm (a transitional norm valid 2013-2024, applies to farmers at livestock production buildings constructed before 2002;value calculated);		TWA: 20 ppm; TWA: 14 mg/m³; STEL: 50 ppm (anhydrous); STEL: 36 mg/m³ (anhydrous);	

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection

Wear safety glasses with side shields (or goggles).

Hand Protection

Impervious gloves.

Skin and Body Protection

Long sleeved clothing.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

Environmental Exposure Controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	clear /colorless
Odor	Odorless
pH - VALUE 1	No data available
Melting point / melting range	No data available
Initial boiling point and boiling range	100 °C / 212 °F
Vapor pressure @20 °C (kPa)	No data available
Relative vapor density	No data available
Relative Density	No data available
Specific gravity - VALUE 1	No data available
Water solubility	Miscible
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Dynamic viscosity - VALUE 1	No data available
Explosive properties	No information available
Oxidizing Properties	No information available
VOC content	No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

Hazardous polymerization

Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

None under normal use conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
Inhalation	No data available.
Eye Contact	No data available.
Skin Contact	No data available.
Ingestion	Harmful if swallowed.

The following ATE values have been calculated for the mixture

ATEmix (oral)	99,999.00
ATEmix (dermal)	99,999.00
ATEmix (inhalation-gas)	99,999.0000000000000000
ATEmix (inhalation-dust/mist)	334.000 mg/l
ATEmix (inhalation-vapor)	99,999.00
Unknown acute toxicity	

Component Information

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenic effects	
Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

SECTION 12: Ecological information

12.1. Toxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
Boric acid (H ₃ BO ₃)			EC50: 115 - 153mg/L (48h, Daphnia magna)
Ammonium hydroxide		LC50: =8.2mg/L (96h, Pimephales promelas) LC50: =0.44mg/L (96h, Cyprinus carpio) LC50: 0.26 - 4.6mg/L (96h, Lepomis macrochirus) LC50: =1.17mg/L (96h, Lepomis macrochirus) LC50: 0.73 - 2.35mg/L (96h,	EC50: =0.66mg/L (48h, water flea) EC50: =0.66mg/L (48h, Daphnia pulex) LC50: =25.4mg/L (48h, Daphnia magna)

		Pimephales promelas) LC50: =5.9mg/L (96h, Pimephales promelas) LC50: >1.5mg/L (96h, Poecilia reticulata) LC50: =1.19mg/L (96h, Poecilia reticulata)	
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12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Chemical name	Partition coefficient
Boric acid (H3BO3)	-1.09

12.4. Mobility in soil**Mobility in soil**

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

Chemical name	PBT and vPvB assessment
Boric acid (H3BO3)	Not PBT/vPvB

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues/Unused Products	Dispose of in accordance with federal, state and local regulations.
Contaminated Packaging	Do not reuse empty containers.
Other information	Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

IMDG

14.1. UN-No	Not regulated
14.2. Proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
14.4. Packing Group	Not regulated
Description	Not applicable
14.5. Marine Pollutant	None
14.6. Special Provisions	None
No information available in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Transport No information available

RID

14.1. UN-No	Not regulated
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14.2. Proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
14.4. Packing Group	Not regulated
Description	Not applicable
14.5. Environmental hazard	None
14.6. Special Provisions	None

ADR

14.1. UN-No	Not regulated
14.2. Proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
14.4. Packing Group	Not regulated
Description	Not applicable
14.5. Environmental hazard	None
14.6. Special Provisions	None

ICAO

14.1. UN-No	Not regulated
14.2. Proper Shipping Name	Not regulated
14.3. Hazard Class	Not regulated
14.4. Packing Group	Not regulated
Description	Not applicable
14.5. Environmental hazard	None
14.6. Special Provisions	None

IATA-DGR

14.1. UN-No	Not regulated
14.2. Proper shipping name	Not regulated
14.3.	
14.4. Packing Group	Not regulated
Description	Not applicable
14.5. Environmental hazard	None
14.6. Special Provisions	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Germany****TA Luft (German Air Pollution Control Regulation)****European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

All of the components in the product are on the following Inventory lists: U.S.A. (TSCA), Europe (EINECS/ELINCS/NLP), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), China (IECSC), Australia (AICS), Korea (ECL).

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies
IECSC	Complies
AIIC	Complies
KECL	Complies

Legend

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

R61 - May cause harm to the unborn child
R60 - May impair fertility
R34 - Causes burns
R50 - Very toxic to aquatic organisms
R10 - Flammable
R23 - Toxic by inhalation

Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H314 - Causes severe skin burns and eye damage
H360FD - May damage fertility. May damage the unborn child
H400 - Very toxic to aquatic life

Revision date 06-Aug-2026

Reason for Revision Not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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