



Safety Data Sheet (SDS)

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

Original Issue date 08/02/2016

Reviewed on 08/21/2023

1 Identification

- **Product Identifier**
- **Trade name: Gillespie Borate**
- **Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information
- **Product Description** Inorganic Borates
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Hammill & Gillespie
869A State Route 12
Frenchtown, NJ 08825
973-822-8000
- **Emergency telephone number:** 973-822-8000

* 2 Hazard(s) Identification

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



GHS08 Health hazard

Carc. 1A H350 May cause cancer (inhalation).

Additional information:

A trade secret component in this proprietary formulation is classified by IARC as a carcinogen upon repeated inhalative exposure.

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



GHS08

- **Signal word:** Danger
- **Hazard-determining components of labeling:**
Trade Secret
Trade Secret
- **Hazard statements:** H350 May cause cancer (inhalation).

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Precautionary statements:

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:

9.9 % of the mixture consists of component(s) of unknown toxicity.

Classification system:

· NFPA ratings (scale 0 - 4)

Health = 1 slightly hazardous
 Fire = 0 will not burn
 Reactivity = 0 stable

· HMIS-ratings (scale 0 - 4)

Health = 1 irritation possible
 Fire = 0 will not burn
 Reactivity = 0 stable

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

* 3 Composition/Information on Ingredients

· Chemical characterization: Mixtures

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

· Dangerous Components:

| | |
|-------------------|--|
| RTECS: EV 9580000 | Trade Secret |
| | ~ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320 |
| | Trade Secret |
| | ~ † Carc. 2, H351; ~ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320 |
| CAS: 1332-58-7 | Trade Secret |
| | ~ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320 |
| RTECS: VV 7330000 | Trade Secret |
| | ~ † Carc. 1A, H350; STOT RE 1, H372; ~ Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320 |

· Additional information:

Trade secret made in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations.

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.

A trade secret component in this proprietary formulation is classified by IARC as a carcinogen upon repeated inhalative exposure.

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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:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.

Information for doctor:

· **Most important symptoms and effects, both acute and delayed:**

Prolonged inhalation of excessive levels of a trade secret component of this proprietary formula may cause a benign pneumoconiotic condition, not normally associated with a decrement in lung function. In cases of longterm exposure to extremely high levels of dust, progressive fibrosis may occur with lung function impairment.

A trade secret component of this proprietary formula can cause silicosis, a fibrosis (scarring) of the lungs.

Silicosis may be progressive; it may lead to disability and death; inhaled from occupational sources is classified as carcinogenic to humans. Some studies show in workers exposed to respirable hazards associated with this component excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease, chronic bronchitis and emphysema.

· **Indication of any immediate medical attention and special treatment needed:**

Observation only is required for adult ingestion of a few grams of GB. For ingestion of larger amounts, maintain adequate kidney function and force fluids. Gastric lavage is recommended for symptomatic patients only. Hemodialysis should be reserved for massive acute ingestion or patients with renal failure. Boron analysis of urine or blood are only useful for documenting exposure and should not be used to evaluate severity of poisoning to guide treatment. (Further information: Litovitz, T.L., Norman, S.A., Veltri, J.C., Annual Report of the American Association of Poison Control Centers Data Collection System., Am. J. Emerg. Med. 1986; 4:427-458).

5 Fire-Fighting Measures

· **Extinguishing media:**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam..

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.

6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures:** Avoid formation of dust.

· **Environmental precautions:** Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up:

Sweep up the material. Dispose contaminated material as waste according to section 13.

· **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.

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7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**
 - Avoid breathing dust.
 - Prevent formation of dust.
- **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:**
 - Keep material dry.
 - Store at ambient temperature and atmospheric pressure.
- **Information about storage in one common storage facility:** Store away from reducing agents and strong acids.
- **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.

1317-65-3 Calcium Carbonate

| | |
|-----------|---|
| NIOSH | Short-term value: 5 mg/m ³ Long-term value: 10 mg/m ³ |
| NIOSH TWA | Short-term value: 5 mg/m ³ Long-term value: 10 mg/m ³ respirable dust |
| OSHA | Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³ |
| OSHA TWA | Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³ respirable fraction |

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| | |
|-----|---|
| PEL | Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction |
| REL | Long-term value: 10* 5** mg/m ³ *total dust |

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| | |
|-----|---|
| TLV | **respirable fraction Long-term value: 2* mg/m ³ E; as respirable fraction |
|-----|---|

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

· **Exposure controls:**

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· **Breathing equipment:**



Properly fitting NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

· **Protection of hands:**

Protective gloves

Eye protection:

Safety glasses

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9 Physical and Chemical Properties

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

- | | |
|---|---|
| · Form: | Powder |
| · Color: | Off-white |
| · Odor: | Odorless |
| · Odor threshold: | Not determined. |
| · 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 applicable. |
| · Ignition temperature: | Not applicable. |
| · 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 applicable. |
| · Upper: | Not applicable. |
| · Vapor pressure: | Not applicable. |
| · Density: | 50-60 lb/ft ³ (Bulk) |
| · Relative density: | Not determined. |
| · Vapor density: | Not applicable. |
| · Evaporation rate: | Not applicable. |
| · Solubility in / Miscibility with: | |
| · Water: | Soluble. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| · Dynamic: | Not applicable. |
| · Kinematic: | Not applicable. |
| · 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.

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Conditions to avoid:

- Reaction with strong reducing agents such as metal hydrides or alkali metals will generate hydrogen gas which could create an explosive hazard.
- **Incompatible materials:** Strong reducing agents and strong acids.
- **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:**

| | | |
|---------------------|-----------|------------------|
| Trade Secret | | |
| | Oral LD50 | 6450 mg/kg (rat) |

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** Mild irritant 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

| | | |
|---|---------------|----|
| | Trade Secret | 2B |
| | Trade Secret | 1 |
| 14808-60-7 | Quartz (SiO2) | 1 |
| · NTP (National Toxicology Program): | | |
| | Trade Secret | K |
| 14808-60-7 | Quartz (SiO2) | K |
| · OSHA-Ca (Occupational Safety & Health Administration): | | |
| None of the ingredients are listed. | | |

*** 12 Ecological Information**

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **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.

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Additional ecological information:

· **General notes:**

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

· **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.

· **Recommended cleansing agent:** Water, if necessary with biodegradable non-toxic cleaner.

14 Transport Information

· **UN-Number:**

· **DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

· **UN proper shipping name:**

· **DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

· **Transport hazard class(es):**

· **DOT, ADR, ADN, IMDG, IATA · Class:**

Non-Regulated Material

· **Packing group:**

· **DOT, ADR, IMDG, IATA**

Non-Regulated Material

· **Environmental hazards:**

Not applicable.

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- | | |
|---|------------------------|
| · 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):**

None of the ingredients are listed.

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

| | |
|------------|--------------|
| | Trade Secret |
| 1332-58-7 | Trade Secret |
| 14808-60-7 | Trade Secret |
| | Trade Secret |
| | Trade Secret |

California Proposition 65:

· **Chemicals known to cause cancer (inhalation):**

1332-58-7 Trade Secret

14808-60-7 Trade Secret

· **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:**

| | |
|-----------|--------------|
| | Trade Secret |
| 1332-58-7 | Trade Secret |

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| | | |
|--|--|------------|
| 14808-60-7 | Trade Secret | |
| · New Jersey Special Hazardous Substance List: | | |
| 14808-60-7 | Trade Secret | |
| · Pennsylvania Right-to-Know List: | | |
| | Trade Secret | |
| 1332-58-7 | Trade Secret | |
| 14808-60-7 | Trade Secret | |
| · Pennsylvania Special Hazardous Substance List: | | |
| None of the ingredients are listed. | | |
| · Carcinogenic categories (inhalation): | | |
| · EPA (Environmental Protection Agency): | | |
| 1319-33-1 | Sodium-Calcium Pentaborate Octahydrate | |
| · TLV (Threshold Limit Value established by ACGIH): | | |
| | Trade Secret | A4 |
| 1332-58-7 | Trade Secret | 2 mg/m3 |
| 14808-60-7 | Trade Secret | A2 |
| | Trade Secret | A2 |
| · NIOSH-Ca (National Institute for Occupational Safety and Health): | | |
| 1332-58-7 | Trade Secret | |
| 14808-60-7 | Trade Secret | |

· **GHS label elements** The product is classified and labeled according to the Globally

Harmonized System (GHS). · **Hazard pictograms:**



GHS08

· **Signal word:** Danger

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· **Hazard-determining components of labeling (inhalation):**

1332-58-7 Trade Secret

14808-60-7 Trade Secret

· **Hazard statements:** H350 May cause cancer (inhalation)

· **Precautionary statements:**

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

P201 Obtain special instructions before use.

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

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

P405 Store locked up.

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

· **National regulations:**

The product is subject to be classified according with the latest 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 / last revision: 08/02/2016 / 08/21/2023** ·

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)

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

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

Carc. 1A: Carcinogenicity – Category 1A

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

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

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