**OMBO028 - DIMETHYLANILINIUM TETRAKIS(PENTAFLUOROPHENYL) BORATE**

**DIMETHYLANILINIUM TETRAKIS(PENTAFLUOROPHENYL) BORATE**
Safety Data Sheet OMBO028
Date of issue: 03/02/2018  Version: 1.0

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### SECTION 1: Identification

#### 1.1. Identification
- **Product name:** DIMETHYLANILINIUM TETRAKIS(PENTAFLUOROPHENYL) BORATE
- **Product code:** OMBO028
- **Product form:** Substance
- **Physical state:** Solid
- **Formula:** C\textsubscript{33}H\textsubscript{12}BF\textsubscript{20}N
- **Synonyms:**
  - BENZENE, PENTAFLUORO-, BORON COMPLEX
  - N,N-DIMETHYLANILINIUM TETRAKIS(PENTAFLUOROPHENYL)BORATE
  - PHENYLDIMETHYLAMMONIUM TETRAKIS(PENTAFLUOROPHENYL)BORATE
  - BENZENAMINE, N,N-DIMETHYL-, TETRAKIS(PENTAFLUOROPHENYL)BORATE(1-)

#### 1.2. Recommended use and restrictions on use
- **Recommended use:** Chemical intermediate

#### 1.3. Supplier
**GELEST, INC.**
11 East Steel Road
Morrisville, PA 19067
USA
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST
info@gelest.com - www.gelest.com

#### 1.4. Emergency telephone number
- **Emergency number:** CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

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### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture
**GHS-US classification**
- Acute toxicity (oral) Category 4 - H302 Harmful if swallowed
- Skin corrosion/irritation Category 2 - H315 Causes skin irritation
- Serious eye damage/eye irritation Category 1 - H318 Causes serious eye damage
- Carcinogenicity Category 2 - H351 Suspected of causing cancer

Full text of H statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements
**GHS US labeling**
- **Signal word (GHS US):** Danger
- **Hazard pictograms (GHS US):**

- **Hazard statements (GHS US):**
  - H302 - Harmful if swallowed
  - H315 - Causes skin irritation
  - H318 - Causes serious eye damage
  - H351 - Suspected of causing cancer

- **Precautionary statements (GHS US):**
  - P201 - Obtain special instructions before use.
  - P202 - Do not handle until all safety precautions have been read and understood.
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
  - P310 - Immediately call a doctor
  - P264 - Wash hands thoroughly after handling.
  - P270 - Do not eat, drink or smoke when using this product.
  - P330 - Rinse mouth.
  - P301+P312 - If swallowed: Call a doctor if you feel unwell
  - P332+P313 - If skin irritation occurs: Get medical advice/attention.
  - P333+P343 - If on skin: Wash with plenty of soap and water
  - 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.
  - P362+P364 - Take off contaminated clothing and wash it before reuse.
  - P405 - Store locked up.
  - P321 - Specific treatment (see first aid instructions on this label)
  - P501 - Dispose of contents/container to licensed waste disposal facility.

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2.3. Hazards not otherwise classified (HNOC)
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Substance type</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mono-constituent</td>
<td>DIMETHYLANILINIUM TETRAKIS(PENTAFLUOROPHENYL) BORATE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylanilinium tetrakis(pentafluorophenyl)borate</td>
<td>(CAS-No.) 118612-00-3</td>
<td>95 - 100</td>
<td>Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 2, H351</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures
Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact: Wash with plenty of soap and water. Get medical advice/attention.

First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion: Never give anything by mouth to an unconscious person. Immediately call a poison center or doctor/physician.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects: Suspected of causing cancer.

Symptoms/effects after inhalation: May cause irritation to the respiratory tract.

Symptoms/effects after skin contact: Causes skin irritation.

Symptoms/effects after eye contact: Causes serious eye damage.

Symptoms/effects after ingestion: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

4.3. Immediate medical attention and special treatment, if necessary
No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Alcohol-resistant foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media: Avoid water spray as n-butanol will be generated.

5.2. Specific hazards arising from the chemical

Fire hazard: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: Exercise caution when fighting any chemical fire.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.
6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection”.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Provide local exhaust or general room ventilation to minimize exposure to dust.
Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep container tightly closed. Store locked up.
Incompatible materials: Oxidizing agents.
Storage area: Store in a well-ventilated place. Store away from heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available

8.2. Appropriate engineering controls
Appropriate engineering controls: Provide local exhaust or general room ventilation.

8.3. Individual protection measures/Personal protective equipment
Personal protective equipment:
Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:
Neoprene or nitrile rubber gloves

Eye protection:
Chemical goggles. Contact lenses should not be worn

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: Solid
Molecular mass: 813.23 g/mol
Color: White.
Odor: No data available
Odor threshold: No data available
Refractive index: No data available
pH: No data available
Relative evaporation rate (butyl acetate=1): No data available
Melting point: 225 - 227 °C decomposes
### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable. Moisture sensitive.

#### 10.3. Possibility of hazardous reactions

Decomposes in contact with moist air.

#### 10.4. Conditions to avoid


#### 10.5. Incompatible materials

Oxidizing agents.

#### 10.6. Hazardous decomposition products


### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity:** Not classified

#### DIMETHYLANILINIUM TETRAKIS(PENTAFLUOROPHENYL) BORATE (118612-00-3)

**ATE US (oral):** 500 mg/kg body weight

**Dimethylanilinium tetrakis(pentafluorophenyl)borate (118612-00-3)**

**ATE US (oral):** 500 mg/kg body weight

**Skin corrosion/irritation:** Causes skin irritation.

**Serious eye damage/irritation:** Causes serious eye damage. Rabbit eye - non-irritating

**Respiratory or skin sensitization:** Not classified

**Germ cell mutagenicity:** Not classified

**Carcinogenicity:** Suspected of causing cancer.

**Reproductive toxicity:** Not classified

**Specific target organ toxicity – single exposure:** Not classified

**Specific target organ toxicity – repeated exposure:** Not classified

**Aspiration hazard:** Not classified

**Symptoms/effects after inhalation:** May cause irritation to the respiratory tract.

**Symptoms/effects after skin contact:** Causes skin irritation.
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Symptoms/effects after eye contact: Causes serious eye damage.
Symptoms/effects after ingestion: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information
12.1. Toxicity
No additional information available
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
No additional information available
12.4. Mobility in soil
No additional information available
12.5. Other adverse effects
Other adverse effects: This substance may be hazardous to the environment.
Effect on the ozone layer: No additional information available

SECTION 13: Disposal considerations
13.1. Disposal methods
Sewage disposal recommendations: Do not dispose of waste into sewer.
Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information
14.1. UN number
Not regulated for transport.
14.2. UN proper shipping name
Not applicable
14.3. Additional information
Other information: No supplementary information available.

Transport by sea
No additional information available
Air transport
No additional information available

SECTION 15: Regulatory information
15.1. US Federal regulations
DIMETHYLANILINIUM TETRAKIS(PENTAFLUOROPHENYL) BORATE (118612-00-3)
TSCA Exemption/Exclusion
CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

Dimethylanilinium tetrakis(pentafluorophenyl)borate (118612-00-3)
Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations
CANADA
No additional information available

EU-Regulations
Dimethylanilinium tetrakis(pentafluorophenyl)borate (118612-00-3)
Listed on ELINCS (European List of Notified Chemical Substances)

National regulations
Print date: 04/10/2019
Dimethylanilinium tetrakis(pentafluorophenyl) borate (118612-00-3)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

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<td>H351</td>
<td>Suspected of causing cancer</td>
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Abbreviations and acronyms:
Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor.

Hazard Rating
Health: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Prepared by safety and environmental affairs.

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According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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