**MATERIAL IDENTIFICATION**

**NAME:** 2-Naphthaleneboronic acid  
**CAS#:** [32316-92-0]  
**CAT#:** 011007  
For R&D use only.

**HAZARDS IDENTIFICATION**

**GHS Classification**
Acute toxicity, oral (Category 4)  
Skin corrosion/irritation (Category 2)  
Serious eye damage/eye irritation (Category 2A)  
Respiratory tract irritation (Category 3)

**GHS Label elements, including precautionary statements**

**Pictograms**

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Statement(s)</td>
<td></td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
</tbody>
</table>

**Precautionary Statement(s)**

<table>
<thead>
<tr>
<th>Statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P261</td>
<td>Avoid breathing dust/fume/gas/mist/vapours/spray.</td>
</tr>
<tr>
<td>P301 + P312</td>
<td>IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.</td>
</tr>
<tr>
<td>P302 + P352</td>
<td>IF ON SKIN: wash with plenty of soap and water.</td>
</tr>
<tr>
<td>P304 + P340</td>
<td>IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.</td>
</tr>
<tr>
<td>P305 + P351 + P338</td>
<td>IF IN EYES: Rinse cautiously with water for several minutes. Remove</td>
</tr>
</tbody>
</table>

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**STABILITY AND REACTIVITY**

Stable under recommended storage conditions.

**HAZARD INFORMATION**

Types of hazard:  
Acute toxicity  
Skin corrosion  
Eye irritation  
Reproductive toxicity  
Carcinogenicity  
Respiratory sensitivity  
Serious eye damage/eye irritation  
Acute toxicity (oral)  
PBT and vPvB assessment  
Mobility in soil  
Persistence and degradability

**FIRST AID MEASURES**

In case of contact with eyes:  
Rinse immediately with plenty of water for 15 minutes.  
Seek medical advice.

In case of skin contact:  
Immediately remove all contaminated clothing.  
Rinse skin with soap and water for at least 15 minutes.  
Seek medical advice.

In case of inhalation:  
Inhale fresh air. Provide artificial respiration if necessary.  
Seek medical advice.

In case of ingestion:  
Do not induce vomiting. Give water to drink.  
Seek medical attention.

**ACCIDENTAL RELEASE MEASURES**

Inhalation:  
Ventilate area. Provide artificial respiration and, if necessary, give oxygen.  
Seek medical advice.

Spills:  
Neutralise acid spills with bicarbonate of soda or sodium bicarbonate.  
For other circumstances, follow good industrial practice.  
Seek medical advice.

**FIRE-FIGHTING MEASURES**

Class:
Not classified as a fire hazard.

Extinguishing media:
Suitable extinguishing media: Water雾, dry powder, foam or carbon dioxide.

Special hazards:
May evolve carbon monoxide, carbon dioxide, and boron oxides.

**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory protection:
Use personal protective equipment recommended or approved by the employer.

Eye protection:
Wear chemical-resistant goggles or safety spectacles.

Hand protection:
Wear chemical-resistant gloves.

Skin protection:
Wear protective clothing.

Other protective equipment:
Wear suitable protective clothing and protective goggles or face shield.

**STORAGE**

Storage conditions:
Keep container tightly closed. Store in a cool, dry, well-ventilated area.

**DISPOSAL CONSIDERATIONS**

Waste:
Classed non-hazardous for shipping.

**ECOLOGICAL INFORMATION**

Biodegradability:
Unknown.

Mobility in soil:
Unknown.

Persistence and degradability:
Unknown.

**TRANSPORT INFORMATION**

UN number:
Unknown.

IMDG:
Classed non-hazardous for shipping.

DOT:
Classed non-hazardous for shipping.

**REGULATORY INFORMATION**

This product is not known to be hazardous under the California Proposition 65.

This product may contain a chemical on the New Jersey Right to Know Components List.

**SDS OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all-inclusive and shall be used to the best of our knowledge, the health hazards of this material have not been fully investigated.

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FIRST AID MEASURES

In case of eye contact
Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

In case of skin contact
Wash thoroughly with soap and plenty of water. Seek medical attention.

If inhaled
Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

If swallowed
Do not induce vomiting. Give water to victim to drink. Seek medical attention.

FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

Special protective equipment for fire-fighters
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards/decomposition of product
emits toxic fumes under fire conditions.

ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area. Remove all sources of ignition. Evacuate personnel.

Environmental precautions
Prevent further leakage if safe to do so.

Methods and materials for containment and clean up
Absorb spills on sand or vermiculite and place in closed container for disposal.

HANDLING AND STORAGE

FORMULA: C10H9BO2
Molecular Weight: 171.99

CAS: 32316-92-0
Description: 2-Naphthaleneboronic acid

OTHER INgüMENTS

STABILITY AND REACTIVITY

Hazard Statement(s)
Respiratory tract irritation (Category 3)
Serious eye damage/eye irritation (Category 2A)
Skin corrosion/irritation (Category 2)

Pictograms
GHS Label elements, including precautionary statements

GHS Classification
For R&D use only.

PBT and vPvB assessment

Mobility in soil

ECOLOGICAL INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

DISPOSAL CONSIDERATIONS

Other adverse effects
no data available

Reproductive toxicity
no data available

Carcinogenicity
Germ cell mutagenicity
no data available

Incompatible materials
no data available

Conditions to avoid
no data available

Possibility of hazardous reactions
no data available

Chemical stability
no data available

Hazardous decomposition products
Strong oxidizing agents.

Exposure Control/Personal Protection

Respiratory protection
Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

Eye/face protection
Contains no substances with occupational exposure limit values.

Hand/skin protection
Wear protective safety goggles or face shields tested and approved under appropriate government standards. Wear chemical-resistant gloves.

Avoid all direct contact with product.

Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.

Precautions for safe handling

Suitable extinguishing media
Do not induce vomiting. Give water to victim to drink. Seek medical attention.

Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

Precautions for safe storage

Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area. Remove all sources of ignition. Evacuate personnel.

Environmental precautions
Prevent further leakage if safe to do so.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP
Absorb spills on sand or vermiculite and place in closed container for disposal.

HANDLING AND STORAGE
Precautions for safe handling
Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.

Precautions for safe storage
Keep container tightly closed. Store in a cool, dry, well-ventilated area. Keep cold.

EXPOSURE CONTROL/PERSONAL PROTECTION
Contains no substances with occupational exposure limit values.

Personal protective equipment

Eye/face protection
Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hand/skin protection
Avoid all direct contact with product.
Wear chemical-resistant gloves.
Wear protective clothing and boots.
After contact with skin, wash immediately.

Respiratory protection
Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>white solid</td>
</tr>
<tr>
<td>Odour</td>
<td>no data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point/Freezing Point</td>
<td>267-268°C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>no data available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
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</tr>
<tr>
<td>Flammability (solid, gas)</td>
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</tr>
<tr>
<td>Upper/Lower Flammability or Explosive limits</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
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</tr>
<tr>
<td>Relative Density</td>
<td>no data available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>no data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>no data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>no data available</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>no data available</td>
</tr>
</tbody>
</table>

STABILITY AND REACTIVITY
Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
no data available

Conditions to avoid
no data available

Incompatible materials
Strong oxidizing agents.

Hazardous decomposition products
May evolve carbon monoxide, carbon dioxide, and boron oxides.

TOXICOLOGICAL INFORMATION

Acute toxicity
no data available

Skin corrosion/irritation
Causes skin irritation

Serious eye damage/eye irritation
Causes serious eye irritation

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
no data available

Reproductive toxicity
no data available

STOT-single exposure
May cause respiratory irritation

STOT-repeated exposure
no data available

Aspiration hazard
no data available

Exposure Routes
Irritating to skin, eyes, and respiratory system.
May have harmful effects if inhaled or swallowed.

To the best of our knowledge, the health hazards of this material have not been fully investigated.

ECOLOGICAL INFORMATION

Toxicity
no data available

**Persistence and degradability**
no data available

**Bioaccumulative potential**
no data available

**Mobility in soil**
no data available

**PBT and vPvB assessment**
no data available

**Other adverse effects**
no data available

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**DISPOSAL CONSIDERATIONS**

Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

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**TRANSPORT INFORMATION**

**DOT**
Classed non-hazardous for shipping.

**IMDG**
Classed non-hazardous for shipping.

**IATA**
Classed non-hazardous for shipping.

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**REGULATORY INFORMATION**

**SARA 302 Components**
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**
SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

**New Jersey Right to Know Components**
This product may contain a chemical on the New Jersey Right to Know Components List.

<table>
<thead>
<tr>
<th>CAS</th>
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</tr>
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</table>

**California Prop. 65 Components**
This product does not contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

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**OTHER INFORMATION**

2-Naphthaleneboronic acid
Version : 1.2

Revision Date : 10/17/2017

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Oakwood shall not be held liable for any damage resulting from handling or from contact with the above product.