SAFETY DATA SHEET
Valproic Acid (sodium salt)

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 13033
1.2 Relevant identified uses of the substance or mixture and uses advised against:
Relevant identified uses: For research use only, not for human or veterinary use.
1.3 Details of the Supplier of the Safety Data Sheet:
Company Name: Cayman Chemical Company
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108
Web site address: www.caymanchem.com
Information: Cayman Chemical Company +1 (734)971-3335
1.4 Emergency telephone number:
Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300
CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:
Acute Toxicity: Oral, Category 4
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2
Toxic To Reproduction, Category 1A
Specific Target Organ Toxicity (single exposure), Category 3

2.2 Label Elements:

GHS Signal Word: Danger
GHS Hazard Phrases:
H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H360: May damage fertility or the unborn child.

GHS Precaution Phrases:
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing (dust/fume/gas/mist/vapors/spray).
P264: Wash {hands} thoroughly after handling.
P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases:
P301+312: IF SWALLOWED: P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Valproic Acid (sodium salt)
SAFETY DATA SHEET

P308+313: IF exposed or concerned: Get medical attention/advice.
P330: Rinse mouth.
P332+313: If skin irritation occurs, get medical advice/attention.
P337+313: If eye irritation persists, get medical advice/attention.
P362+364: Take off contaminated clothing and wash it before reuse.

GHS Storage and Disposal Phrases:
Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health
Effects and Symptoms:
- Causes serious eye irritation.
- Causes skin irritation.
- Harmful if swallowed.
- Material may be irritating to the mucous membranes and upper respiratory tract.
- May be harmful by inhalation or skin absorption.
- May cause respiratory system irritation.
- May damage fertility or the unborn child.
- To the best of our knowledge, the toxicological properties have not been fully evaluated.

Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS # / RTECS #</th>
<th>Hazardous Components (Chemical Name)/REACH Registration No.</th>
<th>Concentration</th>
<th>EC No./EC Index No.</th>
<th>GHS Classification</th>
</tr>
</thead>
</table>
| 1069-66-5      | Sodium valproate 01-2120773864-40                           | 100.0 %       | 213-961-8 NA      | Acute Tox.(O) 4: H302  
Skin Corr. 2: H315   
Eye Damage 2A: H319    
Toxic Repro. 1A: H360  
STOT (SE) 3: H335 H336 |

Section 4. First Aid Measures

4.1 Description of First Aid Measures:
- If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
- If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
- In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.
- In case of skin contact, immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:
- Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
- Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media:
- A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards:
- Flash Pt: No data available.
- Explosive Limits: LEL: No data. UEL: No data.
- Autoignition Pt: No data.

5.3 Fire Fighting Instructions:
- 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.
Section 6. Accidental Release Measures

6.1 Protective Precautions,  
Protective Equipment and  
Emergency Procedures:  
No data available.

6.2 Environmental  
Precautions:  
No data available.

6.3 Methods and Material For  
Containment and Cleaning  
Avoid raising and breathing dust, and provide adequate ventilation.  
As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,  
and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).  
Transfer to a proper chemical waste container for disposal.

Section 7. Handling and Storage

7.1 Precautions To Be Taken  
in Handling:  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken  
in Storing:  
Keep tightly closed.  
Store at correct temperature.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:  

8.2 Exposure Controls:  

8.2.1 Engineering Controls  
(Ventilation etc.):  
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne  
levels below recommended exposure limits.

8.2.2 Personal protection equipment:  
Eye Protection:  
Safety glasses  
Protective Gloves:  
Compatible chemical-resistant gloves  
Other Protective Clothing:  
Lab coat  
Respiratory Equipment  
(Specify Type):  
NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices:  
Do not take internally.  
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety  
shower.  
Wash thoroughly after handling.  
No data available.
## Section 9. Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical States</td>
<td>[ ] Gas [ ] Liquid [ X ] Solid</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>A crystalline solid</td>
</tr>
<tr>
<td>pH</td>
<td>No data</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No data</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>No data</td>
</tr>
<tr>
<td>Flash Pt</td>
<td>No data</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive Limits</td>
<td>LEL: No data. UEL: No data.</td>
</tr>
<tr>
<td>Vapor Pressure (vs. Air or mm Hg)</td>
<td>No data</td>
</tr>
<tr>
<td>Vapor Density (vs. Air = 1)</td>
<td>No data</td>
</tr>
<tr>
<td>Specific Gravity (Water = 1)</td>
<td>No data</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>No data</td>
</tr>
<tr>
<td>Solubility Notes</td>
<td>~10 mg/ml in PBS (pH 7.2); ~30 mg/ml in EtOH; ~5 mg/ml in DMSO &amp; DMF;</td>
</tr>
<tr>
<td>Octanol/Water Partition</td>
<td>No data</td>
</tr>
<tr>
<td>Coefficient</td>
<td></td>
</tr>
<tr>
<td>Autoignition Pt</td>
<td>No data</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data</td>
</tr>
</tbody>
</table>

### 9.2 Other Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Formula &amp; Weight</td>
<td>C8H15O2 · Na 166.2</td>
</tr>
</tbody>
</table>

## Section 10. Stability and Reactivity

### 10.1 Reactivity: No data available.

### 10.2 Stability: [ X ] Stable

### 10.3 Stability Note(s): No data available.

### 10.4 Conditions To Avoid: No data available.

### 10.5 Incompatibility - Materials: Strong oxidizing agents

### 10.6 Hazardous To Avoid:

- carbon dioxide
- carbon monoxide
- sodium oxides

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Multi-region format
Section 11. Toxicological Information

11.1 Information on Toxicological Effects:
The toxicological effects of this product have not been thoroughly studied.

Valproic Acid (sodium salt) - Toxicity Data:
- Oral TDLO (man): 17 mg/kg; Oral TDLO (woman): 500 mg/kg; Oral LDLO (child): 750 mg/kg; Oral LD50 (rat): 670 mg/kg; Intraperitoneal LD50 (rat): 970 mg/kg; Subcutaneous LD50 (rat): 1029 mg/kg; Oral LD50 (mouse): 977 mg/kg; Intraperitoneal LD50 (mouse): 470 mg/kg; Subcutaneous LD50 (mouse) 860 mg/kg;

Chronic Toxicological Effects:
Valproic Acid - Investigated as a drug, mutagen, and reproductive effector.

Information on Toxicological Effects:
Valproic Acid - Investigated as a drug, mutagen, and reproductive effector. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.
Valproic Acid (sodium salt) RTECS Number: YV7876000.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1069-66-5</td>
<td>Sodium valproate</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

Section 12. Ecological Information

12.1 Toxicity:
Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and Degradability:
No data available.

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 Other adverse effects:
No data available.

Section 13. Disposal Considerations

13.1 Waste Disposal Method:
Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):
DOT Proper Shipping Name: Not dangerous goods.
DOT Hazard Class:
UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):
ADR/RID Shipping Name: Not dangerous goods.
UN Number:
Hazard Class:

14.3 AIR TRANSPORT (ICAO/IATA):
ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Information:
Transport in accordance with local, state, and federal regulations.
SAFETY DATA SHEET
Valproic Acid (sodium salt)

Section 15. Regulatory Information

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>S. 302 (EHS)</th>
<th>S. 304 RQ</th>
<th>S. 313 (TRI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1069-66-5</td>
<td>Sodium valproate</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists
1069-66-5 Sodium valproate CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No

Regulatory Information: This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

Section 16. Other Information

Revision Date: 01/10/2019

Additional Information About This Product: No data available.

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