1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 156253

Product name: PICRAMIC ACID SODIUM SALT

Synonyms: Sodium Picramate Wet

Supplier: MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Weight %</th>
<th>ACGIH Exposure Limits</th>
<th>OSHA Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PICRAMIC ACID SODIUM SALT</td>
<td>831-52-7</td>
<td>90 - 100%</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Flammable

Category of Danger:
Flammable

Principle routes of exposure:
Skin
Inhalation: May cause irritation of respiratory tract
Ingestion: May be harmful if swallowed.
Skin contact: May cause allergic skin reaction
Eye contact: Avoid contact with eyes

Statements of hazard: Flammable
Statement of Spill or Leak - ANSI Label
Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation: Move to fresh air. Call a physician immediately.
Skin contact: Rinse immediately with plenty of water and seek medical advice
Ingestion: Do not induce vomiting without medical advice.
Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Protection of first-aiders: No information available
Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:
Use dry chemical, CO2, water spray or ‘alcohol’ foam.

Extinguishing media which must not be used for safety reasons:
Do not use a solid water stream as it may scatter and spread fire.

Specific hazards:
Extremely flammable

Unusual hazards:
None known

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

Specific methods:
Water mist may be used to cool closed containers.

Flash point:
98.8°C

Autoignition temperature:
Not determined

NFPA rating:
- NFPA Health: 1
- NFPA Flammability: 4
- NFPA Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:
Use personal protective equipment.

Environmental precautions:
Prevent product from entering drains.

Methods for cleaning up:
Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:
+4°C

Handling:
Use only in area provided with appropriate exhaust ventilation.

Safe handling advice:
Wear personal protective equipment.

Incompatible products:
Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory protection: Breathing apparatus only if aerosol or dust is formed.
Hand protection: PVC or other plastic material gloves
Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect.
Eye protection: Safety glasses with side-shields
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Powder
Formula: C6H5N3O5•Na
Molecular weight: 221.1 (ANHYDROUS)
Melting point/range: No data available at this time.

Catalog Number: 156253 Product name: PICRAMIC ACID SODIUM SALT
Boiling point/range: No Data available at this time.
Density: No data available
Vapor pressure: No data available
Evaporation rate: No data available
Vapor density: No data available
Solubility (in water): Soluble
Flash point: 98.8°C
Autoignition temperature: Not determined

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.
Polymerization: None under normal processing.
Hazardous decomposition products: Nitrogen oxides (NOx)/ammonia/CN-, Sodium oxides (Na2O)
Materials to avoid: Strong oxidising agents
Conditions to avoid: Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information
Acute toxicity
Components RTECS Number: Selected LD50s and LC50s
PICRAMIC ACID SODIUM SALT TJ7850000 Oral LD50 Mouse : 378 mg/kg

Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
Primary irritation: No data is available on the product itself.
Carcinogenic effects: No data is available on the product itself.
Mutagenic effects: No data is available on the product itself.
Reproductive toxicity: No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility: No data available
Bioaccumulation: No data available
Ecotoxicity effects: No data available
Aquatic toxicity: May cause long-term adverse effects in the aquatic environment.

Components U.S. DOT - Appendix B - Severe Marine Pollutants United Kingdom - The Red List:
PICRAMIC ACID SODIUM SALT Not Listed Not Listed Not Listed

Components Germany VCI (WGK) World Health Organization (WHO) - Drinking Water Ecotoxicity - Fish Species Data
PICRAMIC ACID SODIUM SALT Not Listed Not Listed Not Listed

Components Ecotoxicity - Freshwater Algae Data Ecotoxicity - Microtox Data Ecotoxicity - Water Flea Data
PICRAMIC ACID SODIUM SALT Not Listed Not Listed Not Listed
13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Contaminated packaging: Do not re-use empty containers

14. TRANSPORT INFORMATION

UN/Id No: 1349

DOT:
Proper shipping name: Sodium Picramate wetted w/20% or more water by weight
IATA Hazard Label(s): Flammable Solid
Hazard Class 4.1 - Self reactive substances
Packing group: I

Emergency Response Guide Number (ERG): 113

TDG (Canada):
WHMIS hazard class: B4 flammable solids

IMDG/IMO
Proper shipping name: Sodium Picramate wetted w/20% or more water by weight

IMDG - Hazard Classifications
IMDG class or division = 1.3C (UN0235); 4.1 (UN1349)
IMDG - Regulated Substances
UN0235 (dry or wetted with less than 20% water, by mass);
UN1349 (wetted with not less than 20% water, by mass)

IMO-labels:
15. REGULATORY INFORMATION

International Inventories

Components
PICRAMIC ACID SODIUM SALT

Inventory - United States TSCA - Sect. 8(b): Present
Canada DSL Inventory List - Not Listed
Canada NDSL Inventory List - C6H5N3O5.Na
Australia (AICS): Present
Inventory - China: Present
EU EINECS List - 212-603-8; C6H5N3O5.Na
Inventory - Japan: 3-821
Korean KECL: KE-01324
Philippines PICCS: Present

U.S. regulations:
Components
PICRAMIC ACID SODIUM SALT

California Proposition 65: Not Listed
Massachusetts Right to Know List: Not Listed
New Jersey Right to Know List: sn 2780
Pennsylvania Right to Know List: Not Listed

Florida substance List: Not Listed
Rhode Island Right to Know List: Not Listed
Illinois - Toxic Air Contaminants: Not Listed
Connecticut - Hazardous Air Pollutants: Not Listed

SARA 313 Emission reporting/Toxic Release of Chemicals
PICRAMIC ACID SODIUM SALT
Not Listed Not Listed None None

SARA 313 Notification: The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

State Notification: The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety
Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, MP Biomedicals does not guarantee the accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage maybe required. MP Biomedicals assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.
End of Safety Data Sheet