

Revision date: 09-16-2014

# Neutron® Pharmachemical Co. SAFETY DATA SHEET

## 1. Identification

Product identifier: Sodium benzoate

Other means of identification

**Product No.:** 1.1630

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

## Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name: NEUTRON PHARMACHEMICAL CO.

Address: 98, 9th Floor, Borjsaz Building,

Azadi Ave, Tehran, Iran.

Telephone: 021-66906732-3

Fax: 021-66581408

e-mail: info@neutronpharmachemical.com

#### **Emergency telephone number:**

24 Hour Emergency: 125

# 2. Hazard(s) identification

## Hazard classification

#### **Health hazards**

Serious eye damage/eye irritation Category 2A

## Label elements

## Hazard symbol:



Signal word: Warning

**Hazard statement:** Causes serious eye irritation.

## **Precautionary statement**

**Prevention:** Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection.

**Response:** If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists:

Get medical advice/attention.

Revision date: 09-16-2014

Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

#### **Substances**

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
SODIUM BENZOATE		532-32-1	99 - 100%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

Ingestion: Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician if

you feel unwell.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Skin contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation

persists after washing. Wash contaminated clothing before reuse.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention if symptoms persist.

Most important symptoms/effects, acute and delayed

**Symptoms:** May cause irritation to skin, eyes, and respiratory tract.

Indication of immediate medical attention and special treatment needed

**Treat symptomatically.** Symptoms may be delayed.

# 5. Fire-fighting measures

**General fire hazards:** Powdered material may form explosive dust-air mixtures.

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

None known.

Specific hazards arising from

the chemical:

Dust may form explosive mixture with air. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

**Special fire fighting** 

procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Revision date: 09-16-2014

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

Methods and material for

containment and cleaning up:

Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination. Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

**Notification Procedures:** 

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved. Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

**Environmental precautions:** 

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling:

Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed. Store in cool, dry place. Store in a wellventilated place.

## 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

None of the components have assigned exposure limits.

Appropriate engineering

No data available.

Individual protection measures, such as personal protective equipment

controls

General information:

Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level.

Eye/face protection: Use tight fitting goggles if dust is generated.

Skin protection

Hand protection: Wear protective gloves.

Other: Wear suitable protective clothing.

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Revision date: 09-16-2014

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Provide eyewash station and safety shower.

## 9. Physical and chemical properties

**Appearance** 

Physical state: Solid
Form: Powder.
Color: White
Odor: Odorless

Odor threshold:No data available.pH:Approximate 8

Melting point/freezing point: 410 °C

Initial boiling point and boiling range:No data available.Flash Point:Not applicableEvaporation rate:No data available.Flammability (solid, gas):No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

Solubility(ies)

**Solubility in water:** 627.8 g/l (15 °C)

626 g/l (30 °C) 711.1 g/l (100 °C)

**Solubility (other):** methanol: 82.2 g/l (15 °C)

ethanol: 23 g/l (25 °C)

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

No data available.

No data available.

No data available.

Viscosity:

No data available.

Other information

Molecular weight: 144.11 g/mol (C7H6O2.Na)

#### 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

**Conditions to avoid:** Contact with incompatible materials. Excessive heat.

**Incompatible materials:** Strong oxidizing agents. Acids. Ferric salts.

Revision date: 09-16-2014

Hazardous decomposition

products:

Thermal decomposition may release oxides of carbon. Sodium oxides

## 11. Toxicological information

Information on likely routes of exposure

**Ingestion:** May be harmful if swallowed.

**Inhalation:** Dust may irritate respiratory system.

**Skin contact:** May cause irritation.

**Eye contact:** Causes eye irritation.

## Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** LD 50 (Rat): 4,070 mg/kg

Dermal Product:

No data available.

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** No data available.

Skin corrosion/irritation

**Product:** Powder may irritate skin.

Serious eye damage/eye irritation

**Product:** Causes eye irritation.

Respiratory or skin sensitization

**Product:** Not a skin sensitizer.

Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.

# IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

# **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

# Germ cell mutagenicity

In vitro

**Product:** No mutagenic components identified

In vivo

**Product:** No mutagenic components identified

Reproductive toxicity

**Product:** No components toxic to reproduction

## Specific target organ toxicity - single exposure

Revision date: 09-16-2014

**Product:** None known.

Specific target organ toxicity - repeated exposure

**Product:** None known.

**Aspiration hazard** 

Product: Not classified

Other effects: None known.

## 12. Ecological information

#### **Ecotoxicity:**

## Acute hazards to the aquatic environment:

**Fish** 

Product: LC 50 (Fathead minnow (Pimephales promelas), 96 h): > 100 mg/l

**Aquatic invertebrates** 

**Product:** No data available.

# Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

#### Persistence and degradability

**Biodegradation** 

**Product:** There are no data on the degradability of this product.

**BOD/COD** ratio

**Product:** No data available.

# **Bioaccumulative potential**

**Bioconcentration factor (BCF)** 

**Product:** No data available on bioaccumulation.

Partition coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in soil: No data available.

Other adverse effects: The product components are not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills

can have a harmful or damaging effect on the environment.

## 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

**Contaminated packaging:** Since emptied containers retain product residue, follow label warnings even

after container is emptied.

Revision date: 09-16-2014

14. Transport information
DOT Not regulated.
IMDG Not regulated.
IATA
Not regulated.
15. Regulatory information
US federal regulations
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.
CERCLA Hazardous Substance List (40 CFR 302.4):  None present or none present in regulated quantities.
Superfund amendments and reauthorization act of 1986 (SARA)
Hazard categories
X Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating
SARA 302 Extremely hazardous substance  None present or none present in regulated quantities.
SARA 304 Emergency release notification  None present or none present in regulated quantities.
SARA 311/312 Hazardous chemical
Chemical identity     Threshold Planning Quantity       SODIUM BENZOATE     500 lbs
SARA 313 (TRI reporting)  None present or none present in regulated quantities.
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)  None present or none present in regulated quantities.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):  None present or none present in regulated quantities.
US state regulations
US. California Proposition 65  No ingredient regulated by CA Prop 65 present.
US. New Jersey Worker and Community Right-to-Know Act No ingredient regulated by NJ Right-to-Know Law present.

**US. Massachusetts RTK - Substance List**No ingredient regulated by MA Right-to-Know Law present.

Revision date: 09-16-2014

#### **US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

#### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

# **Inventory Status:**

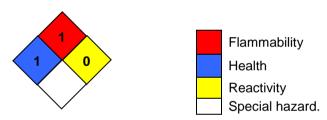
Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory On or in compliance with the inventory EINECS, ELINCS or NLP: Japan (ENCS) List: On or in compliance with the inventory China Inv. Existing Chemical Substances: Not in compliance with the inventory. Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory Canada NDSL Inventory: Not in compliance with the inventory. Philippines PICCS: On or in compliance with the inventory US TSCA Inventory: On or in compliance with the inventory New Zealand Inventory of Chemicals: On or in compliance with the inventory

Japan ISHL Listing:

On or in compliance with the inventory
On or in compliance with the inventory

# 16.Other information, including date of preparation or last revision

#### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Issue date:** 09-16-2014

**Revision date:** No data available.

Version #: 1.0

Further information: No data available.

Revision date: 09-16-2014

#### Disclaimer:

THE INFORMATION PRESENTED IN THIS MATERIAL SAFETY DATA SHEET (MSDS/SDS) WAS PREPARED BY TECHNICAL PERSONNEL BASED ON DATA THAT THEY BELIEVE IN THEIR GOOD FAITH JUDGMENT IS ACCURATE. HOWEVER, THE INFORMATION PROVIDED HEREIN IS PROVIDED "AS IS," AND AVANTOR PERFORMANCE MATERIALS MAKES AND GIVES NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, AND EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING SUCH INFORMATION AND THE PRODUCT TO WHICH IT RELATES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION<(>,<)> WARRANTIES OF ACCURACY, COMPLETENESS, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY, STABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE. OR USAGE OF TRADE. THIS MSDS/SDS IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT, AND IS NOT INTENDED TO BE COMPREHENSIVE AS TO THE MANNER AND CONDITIONS OF USE, HANDLING, STORAGE, OR DISPOSAL OF THE PRODUCT. INDIVIDUALS RECEIVING THIS MSDS/SDS MUST ALWAYS EXERCISE THEIR OWN INDEPENDENT JUDGMENT IN DETERMINING THE APPROPRIATENESS OF SUCH ISSUES. ACCORDINGLY, AVANTOR PERFORMANCE MATERIALS ASSUMES NO LIABILITY WHATSOEVER FOR THE USE OF OR RELIANCE UPON THIS INFORMATION. NO SUGGESTIONS FOR USE ARE INTENDED AS, AND NOTHING HEREIN SHALL BE CONSTRUED AS, A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE, LOCAL, OR FOREIGN LAWS. AVANTOR PERFORMANCE MATERIALS REMINDS YOU THAT IT IS YOUR LEGAL DUTY TO MAKE ALL INFORMATION IN THIS MSDS/SDS AVAILABLE TO YOUR EMPLOYEES.