



Material safety data sheet

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Catalog Numbers: 69031

Catalog Name: Borate pH standard solution (pH9.18)

Company Identification:

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CREATION DATE: November 29, 2011

SECTION 2 HAZARDS IDENTIFICATION

Physical and chemical hazard

Flammable liquids : Out of category

Pyrophoric liquids : Out of category

Human health hazard

Acute toxicity(oral) : Out of category

Acute toxicity(derma1) : Out of category

Skin corrosion ·Irritation : Out of category

Serious eye damage ·Eye irritation : Out of category

Specific target organ systemic toxicity(single exposure) : Out of category

Specific target organ systemic toxicity(repeated exposure) : Out of category

Environmental hazard

Hazardous to the aquatic environment-acute hazard : Out of category

Hazardous to the aquatic environment-chronic hazard : Out of category

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Substance/Mixture : Substance

COMPONENT: Sodium tetraborate

CAS NUMBER: 1330-43-4

US TSCA inventory: Registered

EC NUMBER (EINECS): 215-540-4

JAPAN NUMBER (ENCS): 1-69

PERCENTAGE: 0.2% (0.0099mo1/L) Sodium tetraborate in water

SECTION 4 FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

INHALATION : Move victim to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, administer artificial respiration. Maintain normal body temperature with a blanket. If irritation persists, transport to a hospital immediately.

SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, transport to a hospital immediately.

EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, transport to a hospital immediately.

INGESTION : Rinse mouth, give plenty of water to dilute the substance and induce vomiting(only in conscious persons !). Never give anything by mouth to an unconscious person. Transport to a hospital immediately.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media : This product is noncombustible.

Prohibited extinguishing media : None

Particular fire fighting : Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Cautions for personnel : If necessary, wear proper protective equipment.

Cautions for environment : Nothing particular

Removal measure : Absorb spill with paper or cloth.

SECTION 7 HANDLING AND STORAGE

Handling

Engineering measures : Avoid contact with skin.

Storage

Adequate storage condition : Store in a dark, cool place and tightly closed.

Safety adequate container materials : Glass, polyethylene, polypropylene

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering measures : Install a local ventilation system under dense vapor and dusty condition.

Control parameters

ACGIH(2009) : Not established

Protective equipment

Respiration protective equipment : Not necessary

Hands protective equipment : If necessary, wear gloves.

Eyes protective equipment : If necessary, wear goggles.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear liquid
Appearance: almost colorless
Odor: odorless
pH: 9.18
Boiling Point: Approx. 100
Freezing/Melting Point: Approx. 0
Flash Point: Noncombustible
Specific Gravity/Density: Approx. 1g/ml(20)
Solubility : Solubility in solvents : Water ; Freely soluble

SECTION 10 STABILITY AND REACTIVITY

Stability : Stable under normal usage.

Incompatib1e conditions : Light, heat

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity :

Oral - Out of category

Dermal : Not possible to classify because of insufficient data.

Inhalation(vapor) : Not possible to classify because of insufficient data.

Inhalation(dust, mist) : Not possible to classify because of insufficient data.

If swallowed a large dose, may cause nausea.

(as Sodium tetraborate)

rat oral LD50= 1200mg/kg

rat mouse) LD50= 1060mg/kg

ivn, mouse 2817 mg/kg

Skin corrosiveness : Not available as the mixture and components

Irritation to skin, eyes : Not available as the mixture and components

Slight irritation of eyes.

Respiratory sensitization or Skin sensitization : Respiratory sensitization : Not possible to classify because of insufficient data.

Skin sensitization : Not possible to classify because of insufficient data.

Mutagenicity : Not possible to classify because of insufficient data.

Carcinogenic effects : Not possible to classify because of insufficient data.

Effects on the reproductive system : Not possible to classify because of insufficient data.

Specific target organ systemic toxicity single exposure : Out of category

Not available as the mixture and components

Specific target organ systemic toxicity repeated exposure : Out of category

Not available as the mixture and components

Aspiration hazard : Not possible to classify because of insufficient data.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity

Fish toxicity : Acute aquatic toxicity : Out of category

Chronic aquatic toxicity : Out of category

Rediualbility and degradability : Not available

Mobility : Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules).

After contents are completely removed, dispose of its container at hazardous or special waste collection point. (in accordance with local/regional/national/international regulation).

SECTION 14 TRANSPORT INFORMATION

IATA

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

IMO

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

RID/ADR

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing group:

SECTION 15 REGULATORY INFORMATION

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

SECTION 16 OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Junsei Chemical Co.,Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.