

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers: B116 Amylase Diffusion Buffer

1.2 Recommended Use: Forensic, Research

1.3 Company Info: Serological Research Institute (SERI), 3053 Research Drive, Richmond, CA 94806 USA

Phone: 1-510-223-7374 Fax: 1-510-222-8887

1.4 Emergency Phone: 911, American Association of Poison Control Centers: 1-800-222-1222

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures:

Sodium chloride, Synonyms: Halite, Common salt, Rock salt, Formula : Cl Na, CAS-No. : 7647-14-5

Sodium phosphate dibasic, Synonyms: Disodium hydrogen phosphate, sec-Sodium phosphate, Disodium phosphate, Sodium hydrogenphosphate, Formula : HNa₂O₄P, Molecular Weight : 141.96 g/mol, CAS-No. : 7558-79-4, EC-No. : 231-448-7

Sodium phosphate monobasic, Synonyms: Monosodium phosphate, Sodium dihydrogen phosphate, Formula : H₂NaO₄P, Molecular Weight : 119.98 g/mol, CAS-No. : 7558-80-7, EC-No. : 231-449-2

3.2 Hazardous Components: No ingredients are hazardous according to OSHA criteria.

3.3 Component Percentage/Concentration has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water, also under the eyelids, for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed: No data available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture: Oxides of phosphorus, Sodium oxides, Hydrogen chloride gas

5.3 Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information: Keep product and empty container away from heat and sources of ignition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions: Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections: For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Hygroscopic. Keep in a dry place, cool and well-ventilated place.

7.3 Specific end use(s): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: Components with workplace control parameters Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment: Eye/face protection, Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact, Material: Nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 min, Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact, Material: Nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 min, Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection, impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection, For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure, Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: Powder, Color: White, b) Odor: No data available, c) Odor Threshold: No data available, d) pH: No data available, e) Melting point/freezing point: No data available, f) Initial boiling point and boiling range: No data available, g) Flash point: No data available, h) Evaporation rate: No data available, i) Flammability (solid, gas): No data available, j) Upper/lower flammability or explosive limits: No data available, k) Vapor pressure: No data available, l) Vapor density: No data available, m) Relative density: No data available, n) Water solubility: Partly soluble in water, o) Partition coefficient: noctanol/water: No data available, p) Auto-ignition temperature: No data available, q) Decomposition temperature: No data available, r) Viscosity: No data available, s) Explosive properties: No data available, t) Oxidizing properties: No data available

9.2 Other safety information: No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No data available, Chemical stability: Stable under recommended storage conditions, Possibility of hazardous reactions: No data available, Conditions to avoid: Incompatible products. Excess heat. Avoid dust formation., Incompatible materials: Metals, Strong oxidizing agents, Strong acids, Hazardous decomposition products: Hydrogen chloride gas, Sodium oxides, In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects, Acute toxicity: no data available, Inhalation: no data available, Dermal: no data available, Skin corrosion/irritation: Skin – rabbit, Result: Mild skin irritation - 24 h, Serious eye damage/eye irritation: Eyes – rabbit, Result: Mild eye irritation - 24 h, Respiratory or skin sensitization: no data available, Germ cell mutagenicity: no data available, Carcinogenicity, IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC., ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH., NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP., OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA., Reproductive toxicity: no data available, Specific target organ toxicity - single exposure: no data available, Specific target organ toxicity - repeated exposure: no data available Aspiration hazard: no data available, Additional Information: RTECS: WA1900000, WC4500000, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: no data available, 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: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted, 12.6 Other adverse effects: no data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods, Product: Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

DOT (US): UN number: 3077 Class: 9 Packing group: III, Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Disodium hydrogenorthophosphate), Reportable Quantity (RQ): 5000 lbs, Marine pollutant: No, Poison Inhalation Hazard: No, IMDG: Not dangerous goods, IATA: Not dangerous goods

SECTION 15: 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 311/312 Hazards: Acute Health Hazard

SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components: Disodium hydrogenorthophosphate, CAS-No. 7558-79-4, Revision Date 2007-03-01

Pennsylvania Right To Know Components: Sodium dihydrogenorthophosphate, CAS-No. 7558-80-7, Disodium hydrogenorthophosphate, CAS-No. 7558-79-4, Revision Date 2007-03-01

New Jersey Right To Know Components: Sodium dihydrogenorthophosphate, CAS-No. 7558-80-7, Disodium hydrogenorthophosphate, CAS-No. 7558-79-4, Revision Date 2007-03-01

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATION

HMIS Rating, Health Hazard: 1, Chronic Health Hazard: *, Flammability: 1, Physical Hazard 0

NFPA Rating, Health Hazard: 1, Fire Hazard: 0, Reactivity Hazard: 1

Revision Date: 07-2015

This material is for research and forensic applications only. It is not intended for food, drug, household, agricultural, or cosmetic use. All material should be handled only by technically qualified individuals experienced in handling potentially hazardous chemicals. The above information is correct to the best of our knowledge. The user should make independent decisions regarding completeness of the information based on all sources available. Serological Research Institute shall not be held liable for any damage resulting from handling or from contact with the above product.