

# SAFETY DATA SHEET

# 1. Identification

| Product identifier                                  | Aminobenzoate Potassium          |                                      |  |
|---|----------------------------------|--------------------------------------|--|
| Other means of identification                       |                                  |                                      |  |
| Catalog number                                      | 1019756                          |                                      |  |
| Chemical name                                       | Benzoic acid, 4-amino-, mono     | potassium salt                       |  |
| Synonym(s)  | KPABA * Potassium p-aminob       | KPABA * Potassium p-aminobenzoate    |  |
| Recommended use                                     | Specified quality tests and ass  | say use only.                        |  |
| Recommended restrictions                            | Not for use as a drug. Not for a | administration to humans or animals. |  |
| Manufacturer/Importer/Supplier                      | Distributor information          |                                      |  |
| Manufacturer  |                                  |                                      |  |
| Company name  | U. S. Pharmacopeia               |                                      |  |
| Address   | 12601 Twinbrook Parkway          |                                      |  |
|   | Rockville                        |                                      |  |
|   | MD<br>20852-1790                 |                                      |  |
|   | United States                    |                                      |  |
| Telephone   | RS Technical Services            | 301-816-8129                         |  |
| Website   | www.usp.org                      |                                      |  |
| E-mail  | RSTECH@usp.org                   |                                      |  |
| Emergency phone number                              | CHEMTREC within US &             | 1-800-424-9300                       |  |
|   | Canada<br>CHEMTREC outside US &  | +1 703-527-3887                      |  |
|   | Canada                           | 11103-321-3001                       |  |
| 2 Hazard(a) identification                          |                                  |                                      |  |
| 2. Hazard(s) identification                         |                                  |                                      |  |
| Physical hazards                                    | Not classified.                  |                                      |  |
| Health hazards                                      | Not classified.                  |                                      |  |
| Environmental hazards                               | Not classified.                  |                                      |  |
| OSHA defined hazards                                | Not classified.                  |                                      |  |
| Label elements                                      |                                  |                                      |  |
| Hazard symbol                                       | None.                            |                                      |  |
| Signal word   | None.                            |                                      |  |
| Hazard statement                                    | Not available.                   |                                      |  |
| Precautionary statement                             |                                  |                                      |  |
| Prevention  | Not available.                   |                                      |  |
| Response  | Not available.                   |                                      |  |
| Storage   | Not available.                   |                                      |  |
| Disposal  | Not available.                   |                                      |  |
| Hazard(s) not otherwise<br>classified (HNOC)        | Not classified.                  |                                      |  |
| Other hazards which do not result in classification | None known.                      |                                      |  |

# 3. Composition/information on ingredients

### Substance Non-hazardous components

Inhalation

| Chemical name           | Common name and synonyms           | CAS number | %   |
|-------------------------|------------------------------------|------------|-----|
| Aminobenzoate Potassium | KPABA<br>Potassium p-aminobenzoate | 138-84-1   | 100 |

# 4. First-aid measures

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

| Skin contact  | Rinse skin with water/shower. Get medical attention if irritation develops and persists.  |
|---|---|
| Eye contact   | Rinse with water. Get medical attention if irritation develops and persists.  |
| Ingestion   | Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.   |
| Most important<br>symptoms/effects, acute and<br>delayed                  | Flu-like symptoms.  |
| General information   | Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from<br>an occupational health physician or other licensed health-care provider familiar with workplace<br>chemical exposures. In the United States, the national poison control center phone number is<br>1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give<br>oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must<br>receive immediate medical attention. |
| 5. Fire-fighting measures   |   |
| Suitable extinguishing media  | Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.   |
| Unsuitable extinguishing media  | None known.   |
| Specific hazards arising from the chemical                                | No unusual fire or explosion hazards noted.   |
| Special protective equipment<br>and precautions for firefighters          | Wear suitable protective equipment.   |
| Fire-fighting<br>equipment/instructions                                   | Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.  |
| Specific methods  | Use standard firefighting procedures and consider the hazards of other involved materials.  |
| 6. Accidental release meas  | sures   |
| Personal precautions,<br>protective equipment and<br>emergency procedures | Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.  |
| Methods and materials for containment and cleaning up                     | For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.   |
| 7. Handling and storage   |   |
| Precautions for safe handling   | As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after  |

**Conditions for safe storage, including any incompatibilities** Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

### 8. Exposure controls/personal protection

handling.

| Biological limit values   | No biological exposure limits noted for the ingredient(s).  |  |
|---|---|--|
| Exposure guidelines   | No exposure standards allocated.  |  |
| Appropriate engineering<br>controls                                   | Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Local exhaust ventilation such as a laboratory fume hood or other vented enclosure is recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures. |  |
| Individual protection measures, such as personal protective equipment |   |  |
| Eye/face protection   | Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.  |  |
| Skin protection   |   |  |
| Hand protection   | Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.  |  |

| Other                          | For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.   |
|--------------------------------|--|
| Respiratory protection         | Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134). |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice.   |

# 9. Physical and chemical properties

| o. I hybroar and onormour               |   |
|---|---|
| Appearance                              | White crystalline powder.                           |
| Physical state                          | Solid.  |
| Form                                    | Powder.   |
| Odor                                    | Not available.                                      |
| Odor threshold                          | Not available.                                      |
| рН                                      | Not available.                                      |
| Melting point/freezing point            | Not available.                                      |
| Initial boiling point and boiling range | Not available.                                      |
| Flash point                             | Not available.                                      |
| Evaporation rate                        | Not available.                                      |
| Flammability (solid, gas)               | Not applicable.                                     |
| Upper/lower flammability or exp         | losive limits                                       |
| Flammability limit - lower<br>(%)       | Not available.                                      |
| Flammability limit - upper<br>(%)       | Not available.                                      |
| Explosive limit - lower (%)             | Not available.                                      |
| Explosive limit - upper (%)             | Not available.                                      |
| Vapor pressure                          | < 0.0000001 kPa at 25 °C                            |
| Vapor density                           | Not available.                                      |
| Relative density                        | Not available.                                      |
| Solubility in water                     | Very soluble.                                       |
| Auto-ignition temperature               | Not available.                                      |
| Decomposition temperature               | Not available.                                      |
| Viscosity                               | Not available.                                      |
| Other information                       |   |
| Chemical family                         | Vitamin B-complex.                                  |
| Molecular formula                       | C7H6KNO2  |
| Molecular weight                        | 175.23  |
| pH in aqueous solution                  | 7 (1% solution)<br>8 - 9 (5% solution)              |
| Solubility (other)                      | Soluble in alcohol; practically insoluble in ether. |
| 10. Stability and reactivity            |   |
|   |   |

# ReactivityNone known.Chemical stabilityStable at normal conditions.Possibility of hazardous<br/>reactionsNo dangerous reaction known under conditions of normal use.Conditions to avoidContact with incompatible materials.Incompatible materialsStrong oxidizing agents.Hazardous decomposition<br/>productsIrritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NOx, K2O.

# 11. Toxicological information

| Information on likely routes of exposure |                              |  |
|--|------------------------------|--|
| Ingestion                                | Classification not possible. |  |
| Inhalation                               | Classification not possible. |  |

| Eye contactClassification not possible.Symptice:, related to the increase in the in   |   |  |
|---|---|--|
| Synprice:         closs of appetite. Nausea. Fever. Chills. Sore throat. Skin rash.           Diverse:         Persons intolerant of aminobenzoic acid (PABA) may be intolerant of this material also.           Medical conditions aggraves         Diabetes melitus. Hypoglycenia. Impaired kidney function.           Actute toxicing         Classification not possible.           The base of this material showed low acute oral toxicity.         Classification not possible.           Skin corrosion/infration         Classification not possible.           Respiratory or skin sensitization         Classification not possible.           Skin corrosion/infration         Classification not possible.           Garningenicity sensitization         Classification not possible.           Carcinogenicity sensitization         Classification not possible.           Garningenicity sensitization         Classification not possible.           Reproductive toxicity         Based on available data, the classification criteria are not met.           Specific targof toxicity <td< th=""><th>Skin contact</th><th>Classification not possible.</th></td<>  | Skin contact  | Classification not possible.   |
| physical, chemical, and toxicological characteristics         Forese sensitivity         Persons intolerant of aminobenzoic acid (PABA) may be intolerant of this material also.           Medical conditions aggravated by seposure         Diabetes mellitus. Hypoglycemia. Impaired kidney function.           Medical conditions aggravated by seposure         Classification not possible.           Skin corrosion/irritation         Classification not possible.           Skin sensitization         Classification not possible.           Respiratory ensitization         Classification not possible.           Germ cell mutagenicity         Classification not possible.           Reproductive toxicity         Classification not possible.           Specific target organ toxicity -         Based on available data, the classification criteria are not met.           reproductive toxicity         Based on available data, the classification criteria are not met.  | Eye contact   | Classification not possible.   |
| Medical conditions aggravated<br>by exposure         Diabetes mellitus. Hypoglycemia. Impaired kidney function.           Acute toxicity         Classification not possible.<br>The base of this material showed low acute oral toxicity.           Skin corrosion/irritation         Classification not possible.           Berlous aye damagelaye<br>irritation         Classification not possible.           Respiratory or skin sensitization         Classification not possible.           Respiratory sensitization         Classification not possible.           Garcinogenicity         Classification not possible.           Carcinogenicity study, base of material administered<br>demaily.         Classification not possible.           Reporteductive toxicity         Based on available data, the classification criteria are not met.           Specific target organ toxicity -<br>Oral study         Based on available data, the classification criteria are not met.           Observation Period: 108 days         Not available.           Observation Period: 108 daysi         Not available.   | physical, chemical, and   | Loss of appetite. Nausea. Fever. Chills. Sore throat. Skin rash.                                   |
| by scopsure         Classification not possible.<br>The base of this material showed low acute oral toxicity.           Skin corrosion/irritation         Classification not possible.           Skin some status         Classification not possible.           Respiratory or skin sensitization         Classification not possible.           Respiratory sensitization         Classification not possible.           Gern cell mudgenicity         Classification not possible.           Carcinogenicity         Classification not possible.           Resput: No increase in tumors.         Specific arget organ toxicity           Resput: No increase in tumors.         Based on available data, the classification criteria are not met.           single exposure         Specific target organ toxicity -           Specific target organ toxicity -         Based on available data, the classification criteria are not met.           Specific target organ toxicity         No ecotoxicity data noted for the ingredient(s).           Aspiration hazard         Based on available data, the classification criteria are not m  | Cross sensitivity   | Persons intolerant of aminobenzoic acid (PABA) may be intolerant of this material also.            |
| Skin corrosion/irritation     Classification not possible.       Skin corrosion/irritation     Classification not possible.       Respiratory or skin sensitization     Classification not possible.       Respiratory sensitization     Classification not possible.       Germ cell mudgenicity     Classification not possible.       Germ cell mudgenicity     Classification not possible.       Carcinogenicity     Classification not possible.       Carcinogenicity study, base of material administered dermally.     Classification not possible.       Respiratory oskin sensitization     Classification not possible.       Carcinogenicity study, base of material administered dermally.     Classification not possible.       Reproductive toxicity     Reproductive toxicity       Reproductive toxicity     Based on available data, the classification criteria are not met.       Specific target organ toxicity - specific targe  |   | Diabetes mellitus. Hypoglycemia. Impaired kidney function.   |
| Serious eye damagalegy       Classification not possible.         Initiation       Classification not possible.         Respiratory sensitization       Classification not possible.         Carronogenicity       Classification not possible.         Carrinogenicity       Classification not possible.         Carrinogenicity       Classification not possible.         Carrinogenicity       Classification not possible.         Carrinogenicity study, base of material administered       This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.         Reproductive toxicity       Classification not possible.         Reproductive toxicity       Resolution not possible.         Reproductive toxicity       Based on available data, the classification criteria are not met.         Specific target organ toxicity -       Based on available data, the classification criteria are not met.         Specific target organ toxicity -       Resolution toxicity data noted for the ingredient(s).         Specific target organ toxicity -       Not available.         Specint carget datability       Not ava   | Acute toxicity  |  |
| initiation       Respiratory or skin sensitization       Classification not possible.         Skin sensitization       Classification not possible.         Gern cell mutagenicity       Classification not possible.         Carcinogenicity       Classification not possible.         Carcinogenicity       Classification not possible.         Carcinogenicity sudy, base of material administered demaily.       Classification not possible.         Result: No increase in turnors.       Species: Mouse         Reproductive toxicity       Classification not possible.         Reproductive toxicity       Based on available data, the classification criteria are not met.         Specific target organ toxicity - represted exposure       Based on available data, the classification criteria are not met.         Oral study       Result: No toxic signs observed.         Specific target organ toxicity       Not available.         Observation Periot: 108 days       Not available.   | Skin corrosion/irritation   |  |
| Respiratory sensitizationClassification not possible.<br>Classification not possible.<br>Classification not possible.<br>CarcinogenicityClassification not possible.<br>This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.CarcinogenicityClassification not possible.<br>This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.Carcinogenicity study, base of material administered<br>dermally.<br>Result: No increase in turors.<br>Species: MouseClassification not possible.Reproductive toxicityClassification not possible.<br>Reproductivity and development studies in rats and D.<br>melanogaster, with base of material<br>Result: No adverse effectts on reproduction observed.Specific target organ toxicity -<br>repeated exposureBased on available data, the classification criteria are not met.<br>Specific target organ toxicity -<br>species: Rat<br>Observation Period: 108 daysAspiration hazardBased on available data, the classification criteria are not met.12. Ecological information:<br>Mobility in soilNot available.<br>Not available.13. Disposal consideration:<br>Underster effectsNot available.<br>   |   | Classification not possible.   |
| Skin sensitizationClassification not possible.Gern cell mutagenicityClassification not possible.<br>This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.Carcinogenicity study. base of material administered<br>dermally.<br>Result: No increase in turrors.<br>species: MouseThis product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.Reproductive toxicityClassification not possible.Reproductivity and development studies in rats and D.<br>melanogaster, with base of material<br>Result: No diverse effects on reproduction observed.Specific target organ toxicity -<br>single exposureBased on available data, the classification criteria are not met.Specific target organ toxicity -<br>or a tudy<br>Result: No toxics igns observed.Based on available data, the classification criteria are not met.Specific target organ toxicity -<br>or a tudy<br>Result: No toxics igns observed.Based on available data, the classification criteria are not met.Specific target organ toxicity -<br>species: Rat<br>Ocla studyNo ecotoxicity data noted for the ingredient(s).Persistence and degradability<br>Mobility in soilNot available.Other adverse effectsNot available.Other adverse effectsNot available.Other adverse effectsNot available.Other adverse effectsDispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the<br>user of the product to determine, at the time of disposal, whether the product meets RCRA criteria<br>for hazardous waste.Disposal instructionsDispose in accordance with all applicable regulations. Empty containers or liners may retain some<br>product   | Respiratory or skin sensitization   |  |
| Germ cell mutagenicity       Classification not possible.<br>Classification not possible.<br>This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.         Carcinogenicity study, base of material administered<br>dermally.<br>Result: No increase in tumors.<br>Species: Mouse       Carcinogenicity study, base of material administered<br>dermally.         Reproductivity       Classification not possible.         Reproductivity       Classification not possible.         Reproductivity       Classification not possible.         Reproductivity and development studies in rats and D.<br>melanogaster, with base of material<br>Result: No adverse effectts on reproduction observed.         Specific target organ toxicity -<br>repeated exposure       Based on available data, the classification criteria are not met.         Specific target organ toxicity -<br>species: Rat<br>Observation Period: 108 days       Based on available data, the classification criteria are not met.         Aspritation heazed       Based on available data, the classification criteria are not met.         12. Ecological information<br>Observation Period: 108 days       Not ecoloxicity data noted for the ingredient(s).         Peristence and degradability<br>Mobility in soil       Not available.         Not available.       Not available.         Ibiposal consideration:       Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the<br>user of the product of determine, at the time of disposal, whether the product meets RCRA criteria<br>for hazardous waste.  | <b>Respiratory sensitization</b>  | Classification not possible.   |
| Carcinogenicity       Classification not possible.<br>This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.         Carcinogenicity study, base of material administered<br>dermally.<br>Result: No increase in turrors.<br>Species: Mouse       Classification not possible.         Reproductive toxicity       Classification not possible.         Reproductivity       Classification not possible.         Reproductive toxicity       Classification not possible.         Reproductive toxicity       Classification not possible.         Reproductive toxicity       Reproductive toxicity         Reproductive toxicity       Based on available data, the classification criteria are not met.         single exposure       Oral study         Result: No toxic signs observed.       Specific target organ toxicity -<br>especific target organ toxicity -<br>especific alstudy         Result: No toxic signs observed.<br>Specific alstudy       Resed on available data, the classification criteria are not met.         12. Ecological information       Ecotoxicity data noted for the ingredient(s).         Persistence and degradability       Not available.         Not available.       Not available.         Other adverse effects       Not available.         Other adverse effects       Not available.         Disposal instructions       Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the<br>uasat for hazardous  | Skin sensitization  | Classification not possible.   |
| This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity study, base of material administered dermaily. Result: No increase in tumors. Species: Mouse Reproductivity Reproductivity Reproductivity and development studies in rats and D, melanogaster, with base of material Result: No adverse effects on reproduction observed. Specific target organ toxicity - Result: No adverse effects on reproduction observed. Specific target organ toxicity - Specific target organ | Germ cell mutagenicity  | Classification not possible.   |
| dermally,       Result. No increase in tumors.         Species: Mouse       Classification not possible.         Reproductive toxicity       Classification not possible.         Reproductivity and development studies in rats and D.<br>melanogaster, with base of material<br>Result. No adverse effects on reproduction observed.         Specific target organ toxicity -<br>single exposure       Based on available data, the classification criteria are not met.         Specific target organ toxicity -<br>oral study       Based on available data, the classification criteria are not met.         Aspiration hazard       Based on available data, the classification criteria are not met.         12. Ecological information<br>Ecotoxicity       No ecotoxicity data noted for the ingredient(s).         Persistence and degradability       No ecotoxicity data noted for the ingredient(s).         Persistence and degradability       Not available.         Mobility in soil       Not available.         Other adverse effects       Not available.         Disposal considerations       Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the<br>disposal, whether the product meets RCRA criteria<br>for hazardous waste.         Local disposal regulations       Dispose in accordance with all applicable regulations.         Hazardous waste code<br>for bazardous waste.       Dispose in accordance with all applicable regulations.         Hazardous waste code<br>for bazardous waste.  | Carcinogenicity   |  |
| Reproductive toxicity       Classification not possible.         Reproductivity       Reproductivity and development studies in rats and D. melanogaster, with base of material Result. No adverse effects on reproduction observed.         Specific target organ toxicity - single exposure       Based on available data, the classification criteria are not met.         Specific target organ toxicity - repeated exposure       Based on available data, the classification criteria are not met.         Oral study       Result: No toxic signs observet.         Specific target organ toxicity - repeated exposure       Based on available data, the classification criteria are not met.         Oral study       Result: No toxic signs observet.         Specific target organ toxicity - repeated exposure       Based on available data, the classification criteria are not met.         Oral study       Result: No toxic signs observet.         Specific target organ toxicity atta noted for the ingredient(s).       No ecotoxicity data noted for the ingredient(s).         Presistence and degradability       Not available.         Bioaccumulative potential       Not available.         Other adverse effects       Not available.         Other adverse effects       Not available.         Disposal instructions       Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the produce meets RCRA criteria for hazardou   | dermally.<br>Result: No increase in tur   |  |
| Reproductivity       Reproductivity and development studies in rats and D. melanogaster, with base of material Result: No adverse effects on reproduction observed.         Specific target organ toxicity - single exposure       Based on available data, the classification criteria are not met.         Specific target organ toxicity - repeated exposure       Based on available data, the classification criteria are not met.         Oral study       Result: No toxic signs observed.         Species: Rat       Doservation Period: 108 days         Aspiration hazard       Based on available data, the classification criteria are not met.         12. Ecological information       Ecotoxicity data noted for the ingredient(s).         Persistence and degradability       No ecotoxicity data noted for the ingredient(s).         Mobility in soil       Not available.         Other adverse effects       Not available.         Observations       Disposal instructions         Disposal instructions       Dispose in accordance with all applicable regulations.         Hazardous waste code       The waste code should be assigned in discussion between the user, the producer and the waste disposal organay.         Waste from residues / unused product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).       Sipose or in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its containers must be disposed of in a safe manner (see: Disposa   |   | Classification not possible.   |
| single exposure       Based on available data, the classification criteria are not met.         repeated exposure       Oral study         Result: No toxic signs observed.       Species: Rat         Observation Period: 108 days       Based on available data, the classification criteria are not met. <b>12. Ecological information</b> Ecotoxicity       No ecotoxicity data noted for the ingredient(s).         Persistence and degradability       Not available.         Bioaccumulative potential       Not available.         Mobility in soil       Not available.         Other adverse effects       Not available.         Disposal instructions       Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.         Local disposal regulations       Dispose in accordance with all applicable regulations.         Hazardous waste code       The waste code should be assigned in discussion between the user, the producer and the waste disposal company.         Waste from residues / unused product so dispose in accordance with local regulations. Empty containers or liners may retain some product solutions).       Dispose of in accordance with local regulations. Empty containers or liners may retain some product solutions).         Kaste from residues / unused product solutions).       Since emptied containers may retain product residue, follow label warnings even after  | <b>Reproductivity</b><br>Reproductivity and develo<br>melanogaster, with base of  | of material  |
| repeated exposure<br>Oral study<br>Result: No toxic signs observed.<br>Species: Rat<br>Observation Period: 108 daysAspiration hazardBased on available data, the classification criteria are not met.12. Ecological informationEcotoxicityNo ecotoxicity data noted for the ingredient(s).Persistence and degradability<br>Bioaccumulative potential<br>Mobility in soilNot available.Mobility in soilNot available.Other adverse effectsNot available.Disposal instructionsDispose in accordance with all applicable regulations.Under RCRA, it is the responsibility of the<br>user of the product to determine, at the time of disposal, whether the producer and the waste<br>disposal regulationsDispose in accordance with all applicable regulations.Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste<br>disposal company.Dispose of in accordance with local regulations. Empty containers or liners may retain some<br>product residues. This material and its container must be disposed of in a safe manner (see:<br>Disposal instructions).Contaminated packaging   |   | Based on available data, the classification criteria are not met.                                  |
| 12. Ecological informationEcotoxicityNo ecotoxicity data noted for the ingredient(s).Persistence and degradabilityNot available.Bioaccumulative potentialNot available.Mobility in soilNot available.Other adverse effectsNot available. <b>13. Disposal considerations</b> Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.Local disposal regulationsDispose in accordance with all applicable regulations.Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste disposal company.Waste from residues / unused product so for in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is   | repeated exposure<br>Oral study<br>Result: No toxic signs observe<br>Species: Rat |  |
| EcotoxicityNo ecotoxicity data noted for the ingredient(s).Persistence and degradabilityNot available.Bioaccumulative potentialNot available.Mobility in soilNot available.Other adverse effectsNot available. <b>13. Disposal considerations</b> Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.Local disposal regulationsDispose in accordance with all applicable regulations.Hazardous waste codeDispose in accordance with all applicable regulations.Waste from residues / unused product residues / unused productsDispose of in accordance with local regulations. Empty containers or liners may retain some products.Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is  | Aspiration hazard   | Based on available data, the classification criteria are not met.                                  |
| Persistence and degradabilityNot available.Bioaccumulative potentialNot available.Mobility in soilNot available.Other adverse effectsNot available. <b>13. Disposal considerations</b> Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. <b>Local disposal regulations</b> Dispose in accordance with all applicable regulations.Hazardous waste codeDispose in accordance with all applicable regulations.Hazardous waste codeDispose of in accordance with all applicable regulations.Waste from residues / unused productsDispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is  | 12. Ecological information  |  |
| Bioaccumulative potential<br>Mobility in soilNot available.Mobility in soilNot available.Other adverse effectsNot available. <b>13. Disposal considerations</b> Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the<br>user of the product to determine, at the time of disposal, whether the product meets RCRA criteria<br>for hazardous waste.Local disposal regulationsDispose in accordance with all applicable regulations.Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste<br>disposal company.Waste from residues / unused<br>productsDispose of in accordance with local regulations. Empty containers or liners may retain some<br>product residues. This material and its container must be disposed of in a safe manner (see:<br>Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is   | Ecotoxicity   | No ecotoxicity data noted for the ingredient(s).   |
| Mobility in soilNot available.Other adverse effectsNot available. <b>13. Disposal considerations</b> Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the<br>user of the product to determine, at the time of disposal, whether the product meets RCRA criteria<br>for hazardous waste.Local disposal regulationsDispose in accordance with all applicable regulations.Hazardous waste codeDispose in accordance with all applicable regulations.Hazardous waste codeDispose of in accordance with all applicable regulations.Waste from residues / unused<br>productsDispose of in accordance with local regulations. Empty containers or liners may retain some<br>product residues. This material and its container must be disposed of in a safe manner (see:<br>Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is  | Persistence and degradability   | Not available.   |
| Other adverse effectsNot available. <b>13. Disposal considerations</b> Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the<br>user of the product to determine, at the time of disposal, whether the product meets RCRA criteria<br>for hazardous waste.Local disposal regulationsDispose in accordance with all applicable regulations.Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste<br>disposal company.Waste from residues / unused<br>productsDispose of in accordance with local regulations. Empty containers or liners may retain some<br>product residues. This material and its container must be disposed of in a safe manner (see:<br>Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is  | Bioaccumulative potential   | Not available.   |
| 13. Disposal considerationsDisposal instructionsDispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the<br>user of the product to determine, at the time of disposal, whether the product meets RCRA criteria<br>for hazardous waste.Local disposal regulationsDispose in accordance with all applicable regulations.Hazardous waste codeDispose in accordance with all applicable regulations.Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste<br>disposal company.Waste from residues / unused<br>productsDispose of in accordance with local regulations. Empty containers or liners may retain some<br>product residues. This material and its container must be disposed of in a safe manner (see:<br>Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is   | Mobility in soil  | Not available.   |
| Disposal instructionsDispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the<br>user of the product to determine, at the time of disposal, whether the product meets RCRA criteria<br>for hazardous waste.Local disposal regulationsDispose in accordance with all applicable regulations.Hazardous waste codeDispose in accordance with all applicable regulations.Waste from residues / unused<br>productsDispose of in accordance with local regulations. Empty containers or liners may retain some<br>product residues. This material and its container must be disposed of in a safe manner (see:<br>Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is   | Other adverse effects   | Not available.   |
| <ul> <li>Local disposal regulations</li> <li>Local disposal regulations</li> <li>Hazardous waste code</li> <li>Waste from residues / unused products</li> <li>Contaminated packaging</li> <li>user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.</li> <li>Dispose in accordance with all applicable regulations.</li> <li>The waste code should be assigned in discussion between the user, the producer and the waste disposal company.</li> <li>Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).</li> <li>Since emptied containers may retain product residue, follow label warnings even after container is</li> </ul>  | 13. Disposal consideration  | IS   |
| Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste<br>disposal company.Waste from residues / unused<br>productsDispose of in accordance with local regulations. Empty containers or liners may retain some<br>product residues. This material and its container must be disposed of in a safe manner (see:<br>Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is   | Disposal instructions   | user of the product to determine, at the time of disposal, whether the product meets RCRA criteria |
| Waste from residues / unused<br>productsDispose of in accordance with local regulations. Empty containers or liners may retain some<br>product residues. This material and its container must be disposed of in a safe manner (see:<br>Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is  | Local disposal regulations  | Dispose in accordance with all applicable regulations.   |
| productsproduct residues. This material and its container must be disposed of in a safe manner (see:<br>Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is   | Hazardous waste code  |  |
|   |   | product residues. This material and its container must be disposed of in a safe manner (see:       |
| emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.   | Contaminated packaging  |  |

# 14. Transport information

### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

| Not regulated as dangerous g   | oods.  |                         |
|--|--|-------------------------|
| Transport in bulk according to<br>Annex II of MARPOL 73/78 and<br>the IBC Code | Not available.   |                         |
| General information  | It is the shipper's responsibility to determine the correct transport classif shipment.  | fication at the time of |
| 15. Regulatory information   | 1  |                         |
| US federal regulations   | This product is not known to be a "Hazardous Chemical" as defined by t<br>Communication Standard, 29 CFR 1910.1200.<br>All components are on the U.S. EPA TSCA Inventory List. | the OSHA Hazard         |
| Superfund Amendments and Re  | authorization Act of 1986 (SARA)   |                         |
| Hazard categories  | Immediate Hazard - No<br>Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No   |                         |
| SARA 302 Extremely hazard<br>Not listed.                                       | lous substance   |                         |
| SARA 311/312 Hazardous<br>chemical   | No   |                         |
| SARA 313 (TRI reporting)<br>Not regulated.                                     |  |                         |
| Other federal regulations<br>Safe Drinking Water Act<br>(SDWA)                 | Not regulated.   |                         |
| Food and Drug<br>Administration (FDA)  | Not regulated.   |                         |
| US state regulations   |  |                         |
| US. California Proposition 6<br>California Safe Drinking V                     | <b>5</b><br>Vater and Toxic Enforcement Act of 1986 (Proposition 65): This material is sted as carcinogens or reproductive toxins.   | s not known to contain  |
| International Inventories  |  |                         |
| Country(s) or region   | Inventory name   | On inventory (yes/no)*  |
| Australia  | Australian Inventory of Chemical Substances (AICS)   | Yes                     |
| Canada   | Domestic Substances List (DSL)   | No                      |
| Canada   | Non-Domestic Substances List (NDSL)  | Yes                     |
| China  | Inventory of Existing Chemical Substances in China (IECSC)   | No                      |
| Europe   | European Inventory of Existing Commercial Chemical<br>Substances (EINECS)  | Yes                     |
| Europe   | European List of Notified Chemical Substances (ELINCS)   | No                      |
| Japan  | Inventory of Existing and New Chemical Substances (ENCS)   | No                      |
| Korea  | Existing Chemicals List (ECL)  | No                      |
| New Zealand  | New Zealand Inventory  | No                      |
| Philippines  | Philippine Inventory of Chemicals and Chemical Substances (PICCS)  | No                      |
| United States & Puerto Rico  | Toxic Substances Control Act (TSCA) Inventory  | Yes                     |
|  | nents of this product comply with the inventory requirements administered by the g<br>components of the product are not listed or exempt from listing on the inventory a       |                         |

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

| Issue date          | 04-04-2006     |
|---------------------|----------------|
| Revision date       | 09-23-2015     |
| Version #           | 02             |
| Further information | Not available. |

Disclaimer

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**Revision Information** 

This document has undergone significant changes and should be reviewed in its entirety.