

MATERIAL SAFETY DATA SHEET

TETRASODIUM PYROPHOSPHATE (TSPP)

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

| | |
|------------------------|--|
| 1.1 Product Details | |
| 1.1.1 Product name | TETRASODIUM PYROPHOSPHATE |
| 1.1.2 Chemical name | Tetrasodium Pyrophosphate |
| 1.1.3 Chemical formula | Na ₄ P ₂ O ₇ |
| 1.2 Company | Aditya Birla Chemicals 77 Moo 6 Soi Sukhaphiban 1, Poochao Saming Prai Road, Samrong, Phrapradaeng, Samutprakarn 10130 Telephone : +66 (0) 2396 1715-6, 2748 5173 – 4 Fax : +66 (0) 2398 0774 E-mail: mktg@thaipoly.co.th website: www.thaipoly.com |
| 1.3 Emergency | Telephone: +66 (0) 2396 1715 - 6, 2748 5173 –4 |

SECTION 2: COMPOSITION

| | |
|-----------------|---------------------------|
| 2.1 Ingredients | Tetrasodium Pyrophosphate |
| 2.1 CAS No. | 7722-88-5 |

SECTION 3: HAZARDS

| |
|----------------------|
| 3.1 No known hazards |
|----------------------|

SECTION 4: FIRST AID MEASURES

| | |
|--------------------------|---|
| 4.1 Eye Contact | Wash with water |
| 4.2 Skin contact | None required |
| 4.3 Inhalation/ingestion | If any symptoms following ingestion or inhalation obtain medical advice |

SECTION 5: FIRE-FIGHTING MEASURES

| |
|---|
| 5.1 Governed by other materials present. No special fire-fighting equipment or measures required. |
|---|

MATERIAL SAFETY DATA SHEET

SECTION 6: ACCIDENTAL RELEASE MEASURES

| |
|--|
| 6.1 Sweep up spillage and recover/recycle if possible. Otherwise place in paper or plastic sacks and dispose of as industrial waste. |
|--|

SECTION 7: HANDLING & STORAGE

| | |
|--------------|--|
| 7.1 Handling | No special precaution required. |
| 7.2 Storage | Protect from contamination. Store in original, unopened packages in clean, cool, dry place. Store one pallet high to avoid compaction. |

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

| | |
|------------------------------|-------------|
| 8.1 Regulations | None |
| 8.2 Air contamination limits | None listed |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------|---|
| 9.1 Form | Powder or Granule |
| 9.2 Colour | White |
| 9.3 Odour | None |
| 9.4 Change in Physical State | Melts above 950°C |
| 9.5 Bulk Density | 1.0 g / ml |
| 9.6 Vapour pressure | Not applicable |
| 9.7 Viscosity | Not applicable |
| 9.8 Solubility | 5.5 g/100 g water at 20°C 24.6 g/100 g water at 60°C |
| 9.9 pH Value | 10.4 at 20°C (1% solution) |
| 9.10 Flash point | Not applicable |
| 9.11 Ignition temperature | Does not burn |
| 9.12 Explosion limits | Not relevant |

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|-------------------|
| 10.1 Thermal Decomposition | Melts above 950°C |
| 10.1 Hazardous thermal decomposition products | None |
| 10.2 Hazardous reactions | None |

MATERIAL SAFETY DATA SHEET

SECTION 11: TOXICOLOGICAL INFORMATION

| |
|--|
| 11.1 The food grade standard of the product has been used as a food additive for many years. |
|--|

SECTION 12: ECOLOGICAL INFORMATION

| | |
|-------------------------|--|
| 12.1 Ecological effects | May act as a plant nutrient and promotes eutrophication. |
|-------------------------|--|

SECTION 13: DISPOSAL CONSIDERATIONS

| |
|---|
| 13.1 Sweep up spillage and recover/recycle if possible. Otherwise place in paper or plastic sacks and dispose of as industrial waste. |
|---|

SECTION 14: TRANSPORT INFORMATION

| |
|---|
| 14.1 Not classified as a substance hazardous for transport. |
|---|

SECTION 15: REGULATORY INFORMATION

| |
|---|
| 15.1 Not classified as a substance hazardous for supply |
|---|

SECTION 16: OTHER INFORMATION

| |
|--|
| 16.1 This product may be used in the food processing applications: |
|--|

| |
|---|
| 16.1.1 As a constituent of phosphate mixes used in the preparation of products such as hamburgers and sausages. |
|---|

| |
|---|
| 16.1.2 As a constituent of emulsifying - salt blends used in the manufacture of processed cheese. |
|---|

| |
|---|
| 16.1.3 In solutions for the immersion - treatments of seafoods to control yield and modify texture. |
|---|

| |
|--|
| 16.1.4 As a general buffer, sequestrant and stabilizing agent in dairy products and other foodstuffs |
|--|

MATERIAL SAFETY DATA SHEET

16.2 This product may be used in the technical applications:

16.2.1 Soap powders and synthetic detergents - improves resistance to hard water. It is also incorporate in both soap powders and synthetic detergents to stabilize sodium perborate and minimize the risk of oxidative damage to fabrics.

16.2.2 Alkaline detergents for bottle washing etc. - utilized in detergent mixes. Consisting mainly of alkalis to assist in the prevention of precipitation of insoluble salts from hard water.

16.2.3 Textiles - utilised in the degumming of silk and the removal of calcium alginate linking stitches in hosiery manufacture.

16.2.4 Other important uses - Processing aid for china clays, oil - well muds, deflocculation in ceramics manufacture, dispersion of pigments in emulsion paints, complexing agent in plating baths, paper - coating compositions, paper tissue manufacture, dispersant in latex manufacture, and stabiliser in peroxide bleaching (textiles)

DISCLAIMER: Every endeavor has been made to ensure that the information contained in this leaflet reliable but we cannot accept liability for any loss, injury or damage which may result from it use. Data given in this Material Safety Data Sheet are solely for guidance in safe handling and use of the product (s) by customers. They do not form part of any specification. Any liability is not acceptable since application of this product is not in our control.