

## MATERIAL SAFETY DATA SHEET

### DIPOTASSIUM PHOSPHATE

#### *SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION*

1.1 Product Detail	
1.1.1 Product name	DIPOTASSIUM PHOSPHATE
1.1.2 Chemical name	Dipotassium Phosphate
1.1.3 Chemical formula	$K_2HPO_4 + 3H_2O$
1.2 Company	SPE Chemicals Co., Ltd Tel: +86-21 68735647

#### *SECTION 2: COMPOSITION*

2.1 Ingredients	Dipotassium Phosphate $K_2HPO_4 + 3H_2O$
2.2 CAS Number	7758-11-4

#### *SECTION 3: HAZARDS*

3.1 No known hazards
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#### *SECTION 4: FIRST AID MEASURES*

4.1 Eye Contact	None required.
4.2 Skin contact	None required.
4.3 Inhalation / Ingestion	If any symptoms follow ingestion or

#### *SECTION 5: FIRE-FIGHTING MEASURES*

5.1 Governed by other materials present. No special fire-fighting equipment or measures required.
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#### *SECTION 6: ACCIDENTAL RELEASE MEASURES*

6.1 Sweep up spillage and recover/recycle if possible. Otherwise place in a fiber keg or paper sack and dispose of as industrial waste.
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## **SECTION 7: HANDLING & STORAGE**

7.1 Handling	Minimize dust formation.
7.2 Storage	Protect from contamination. Store in original, unopened package in clean, cool, dry place.

## **SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

8.1 Regulations	Permissible Exposure Limit (PEL): 15m/m <sup>3</sup> ; respirable fraction for nuisance dusts.
8.2 Air contamination limits	None listed

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Form	Crystal
9.2 Colour	White
9.3 Odour	None
9.4 Change in physical state	Melting point is > 465oC (>869oF)
9.5 Vapour pressure	Not applicable
9.6 Viscosity	Not applicable
9.7 Solubility	63% at 25oC
9.8 pH Value	8.7 - 9.4 in 1% Solution at 20o C
9.9 Flash point	Not applicable
9.10 Ignition temperature	Does not burn or help other materials to burn
9.11 Explosion limits	Not relevant

## **SECTION 10: STABILITY AND REACTIVITY**

10.1 Thermal decomposition	Loses water, finally forming Tetrapotassium Pyrophosphate
10.2 Hazardous thermal decomposition products	None
10.3 Hazardous reactions	None

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## **SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 No LD50 / LC50 information found relating to normal routes of occupational exposure.
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## **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Ecological effects	No information found
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## **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1 Sweep up spillage and recover/recycle if possible. Otherwise place in a fiber keg or paper sack and dispose of as industrial waste.
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## **SECTION 14: TRANSPORT INFORMATION**

14.1 Not classified as a substance hazardous for transport.
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## **SECTION 15: REGULATORY INFORMATION**

15.1 Not classified as a substance hazardous for supply
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## **SECTION 16: OTHER INFORMATION**

16.1 This product may be used in the following applications
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16.1.2 Used as additive in the coffee creamers
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16.1.3 Used in antifreezing solutions as buffer
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16.1.4 Used as an additive in cheese processes.
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16.1.5 Used as nutrient of penicillin culturing
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16.1.6 Sequestrant and also used as a dispersion medium in liquid detergents
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16.1.7 Ingredient of fertilizer
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