

## 1 Identification

· **Product identifier**

· **Trade name:** Dipotassium Phosphate

· **Article number:**

SYNONYMS: Dibasic potassium phosphate, dipotassium monophosphate, dipotassium phosphate, dipotassium acid phosphate, secondary potassium phosphate, Dipotassium orthophosphate; DKP

· **CAS Number:**

7758-11-4

· **EC number:**

231-834-5

· **Application of the substance / the mixture**

Specialty fertilizer, automotive antifreeze formulations, nutrient for antibiotics, pharmaceuticals, food ingredient.

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Aditya Birla Chemicals (Thailand) Ltd. (Phosphates Division)

77 Moo 6 Soi Sukhaphiban 1, Poochao Saming Prai Road, Samrong, Phrapradaeng, Samutprakarn 10130  
Thailand

Telephone: +66 (0) 27042100

Fax : +66 (0) 2398 0774

Website: [www.adityabirlachemicals.com](http://www.adityabirlachemicals.com)

· **Information department:**

Customer Service Department - Aditya Birla Chemicals (Thailand) Ltd.

Contact: Ms. Sarintip Kritkasarn

e-mail: [sarintip.kritkasarn@adityabirla.com](mailto:sarintip.kritkasarn@adityabirla.com)

· **Emergency telephone number:**

During normal opening times: +66-2-7042100

Fax (Factory): +66-23980774



## 2 Hazard(s) Identification

· **Classification of the substance or mixture**

This product is not considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

The substance is not classified according to the Globally Harmonized System (GHS).

· **Label elements**

· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1

Fire = 0

Reactivity = 0

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**Trade name:** *Dipotassium Phosphate*

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
*7758-11-4 Dipotassium Phosphate*
- **Identification number(s)**
- **EC number:** *231-834-5*
- **Additional information:**  
*Substance name: Value(s) / CAS no. / EINECS no.*  
*Sodium Metabisulfite: 90% / 7681-57-4 / 231-673-0*  
*Synonyms: Sodium metabisulfite; Sodium pyrosulphite; Disodium pyrosulphite; Sodium disulphite; Disodium pentaoxodisulfate.*

### 4 First-Aid Measures

- **Description of first aid measures**
- **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*
- **After skin contact:** *Immediately rinse with water.*
- **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing:** *If symptoms persist consult doctor.*
- **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **Indication of any immediate medical attention and special treatment needed**  
*No further relevant information available.*

### 5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
*CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- **Special hazards arising from the substance or mixture** *No further relevant information available.*
- **Advice for firefighters**
- **Protective equipment:** *No special measures required.*

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** *Not required.*
- **Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*
- **Methods and material for containment and cleaning up:**  
*Dispose of the collected material according to regulations.*
- **Reference to other sections**  
*See Section 7 for information on safe handling.*  
*See Section 8 for information on personal protection equipment.*  
*See Section 13 for disposal information.*

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## 7 Handling and Storage

- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in cool, dry conditions and well ventilated area.
- **Information about storage in one common storage facility:** Keep packaging closed when not in use.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

## 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
- **Form:** Powder
- **Color:** White and/or Pink
- **Odor:** Odorless
- **Odour threshold:** Not determined.
- **pH-value (10 g/l) at 20 °C (68 °F):** 8.7 - 9.4
- **Change in condition**
- **Melting point/Melting range:** >1100 °C (>2012 °F)
- **Boiling point/Boiling range:** Undetermined.

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|   |   |
|---|---|
| · <b>Flash point:</b>                             | Not applicable.                               |
| · <b>Flammability (solid, gaseous):</b>           | Not applicable.                               |
| · <b>Ignition temperature:</b>                    |   |
| · <b>Decomposition temperature:</b>               | Not determined.                               |
| · <b>Auto igniting:</b>                           | Not determined.                               |
| · <b>Danger of explosion:</b>                     | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                        |   |
| Lower:  | Not determined.                               |
| Upper:  | Not determined.                               |
| · <b>Vapor pressure:</b>                          | Not determined.                               |
| · <b>Density at 20 °C (68 °F):</b>                | 1.3 g/cm <sup>3</sup> (10.849 lbs/gal)        |
| · <b>Relative density</b>                         | Not determined.                               |
| · <b>Vapour density</b>                           | Not determined.                               |
| · <b>Evaporation rate</b>                         | Not applicable.                               |
| · <b>Solubility in / Miscibility with Water:</b>  | Soluble.                                      |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                               |
| · <b>Viscosity:</b>                               |   |
| Dynamic:  | Not determined.                               |
| Kinematic:  | Not determined.                               |
| · <b>Other information</b>                        | No further relevant information available.    |

## 10 Stability and Reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>)  
Potassium Oxide

## 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** May cause slight temporary irritation., on contact with skin.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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The substance is not subject to classification.

- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)** Substance is not listed.
- **NTP (National Toxicology Program)** Substance is not listed.
- **OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.

## 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal Considerations (non-mandatory)

- **Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport Information (non-mandatory)

- |  |                              |
|--|------------------------------|
| · <b>UN-Number</b>   |                              |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Void                         |
| · <b>UN proper shipping name</b>   |                              |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Void                         |
| · <b>Transport hazard class(es)</b>  |                              |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   |                              |
| · <b>Class</b>   | Not restricted for transport |
| · <b>Packing group</b>   |                              |
| · <b>DOT, ADR, IMDG, IATA</b>  | Void                         |
| · <b>Environmental hazards:</b>  |                              |
| · <b>Marine pollutant:</b>   | No                           |
| · <b>Special precautions for user</b>  | Not applicable.              |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not regulated for transport. |

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· UN "Model Regulation":

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### 15 Regulatory Information (non-mandatory)

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):** Substance is not listed.
- **Section 313 (Specific toxic chemical listings):** Substance is not listed.
- **TSCA (Toxic Substances Control Act):** Substance is listed.
- **Proposition 65**
- **Chemicals known to cause cancer:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
- **Chemicals known to cause developmental toxicity:** Substance is not listed.
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)** Substance is not listed.
- **TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other Information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Department issuing SDS:** Quality Control Department
- **Contact:**  
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- **Date of preparation / last revision** 06/02/2015 / -
- **Abbreviations and acronyms:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)
- **\* Data compared to the previous version altered.**  
Revision Information: 01/2015, Sections 1, 2, 14 revised - Name, GHS and Transportation.  
Revision Information: 02/2015, Section 1, 2 revised - Name and NFPA.  
Revision Information: 03/2015, Section 1, 3 revised - Synonyms and concentration/ percentage.