

MATERIAL SAFETY DATA SHEET

4149 POTASSIUM DIHYDROGEN PHOSPHATE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

SUPPLIER: SDC Enterprises Limited
Unit 29 Pitcliffe Way Industrial Estate
Upper Castle Street
Bradford
West Yorkshire BD5 7SG

EMERGENCY TELEPHONE: Tel: 01274 750160 Fax: 01274 750162

2. COMPOSITION/INFORMATION ON INGREDIENTS

Inorganic salt

Product name: Potassium Dihydrogen Orthophosphate

CAS number: 778-77-0

Molecular formula: KH_2PO_4 =136.09g/mol

3. HAZARDS IDENTIFICATION

Not classified as dangerous according to EC Directives

4. FIRST AID MEASURES

INHALATION: Remove from exposure
INGESTION: Wash out mouth thoroughly with water. In server cases obtain medical attention.
SKIN: Wash of thoroughly with soap and water.
EYES: Irrigate thoroughly with water. If discomfort persists obtain medical attention.

5. FIRE FIGHTING MEASURES

SPECIAL RISKS: Not combustible
May evolve toxic fumes in fire (phosphorus oxides)

EXTINGUISHING MEDIA: To suit environment

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing.
Carefully sweep up and dispose of in accordance with local regulations
For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers.
Any residues should be treated as for small spillages.

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7. HANDLING AND STORAGE

HANDLING: Wash hands and face after working with substance.
STORAGE: Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

UK EXPOSURE LIMITS: No exposure limits assigned

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATOR: Dust respirator when dusts are generated.
VENTILATION: Extraction Hood
GLOVES: Rubber or plastic
EYE PROTECTION: Goggles or face-shield

OTHER PRECAUTIONS: Plastic apron, sleeves, boots – if handling large quantities

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION:

FORM: Solid
COLOUR: Colourless to White
ODOUR: Odourless

HEALTH, SAFETY ENVIRONMENTAL INFORMATION

pH VALUE: 4.4 (50g/l H₂O)
MELTING TEMPERATURE: 253 °C
DENSITY (g/m³): 2.34
SOLUBILITY IN WATER: Very Soluble
FLAMABILITY: Not Combustible

10. STABILITY AND REACTIVITY

Stable
No data

11. TOXICOLOGICAL INFORMATION

No toxic effects are to be expected when handled properly.

POSSIBLE EFFECTS: After ingestion of large amounts: nausea, vomiting, gastric pain, diarrhoea.
After eye contact: irritation.

FURTHER DATA: No data

12. ECOLOGICAL INFORMATION

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Adverse ecological effects cannot be excluded in the event of improper handling or disposal.

FURTHER ECOLOGICAL DATA

Depending on concentrations, phosphates may contribute to the eutrophication of water supplies.

13. DISPOSAL CONSIDERATIONS

Chemical residues are generally classified as hazardous or special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

14. TRANSPORT INFORMATION

Not subject to transport regulations.

15. REGULATORY INFORMATION

LABEL FOR SUPPLY: European labelling in accordance with EC Directives
EC-no.: 231-913-4

16. OTHER INFORMATION

REVISION COMMENTS: Data sheet is in accordance with CHIP(1994) regulations.
REVISION DATE: 12.11.2014
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