

Producer

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Synonyms

Disodium orthophosphate dihydrate
Disodium phosphate dihydrate
E339

1. Identification of the product and the company

Company identification : See producer.
Identification of the product : Crystals.
Trade name : EUROPHOS DSP 2H2O FG .
Use : Food additive
Chemical formula : Na₂HPO₄.2H₂O
Type of product : Phosphate

2. Information on ingredients

SUBSTANCE NOT INCLUDED IN THE LIST OF DANGEROUS SUBSTANCES (ANNEX I OF DIRECTIVE 67/548 EEC)

Substance name	Value(s)	CAS nr / EINECS nr / EC index	Symbol(s)	R-Phrase(s)
Crystallized disodium orthophosphate dihydrate	: >= 99 %	010028-24-7 / 231-448-7 / -----		

3. Hazards identification

- Inhalation : Dust from this product may cause irritation to the respiratory tract.
- Skin contact : Repeated or prolonged skin contact may cause irritation.
- Eye contact : May cause eye irritation.
- Ingestion : Ingestion unlikely.
If ingested in large amount, nausea, vomiting and diarrhoea are probable;

4. First aid measures

- Skin contact : Rinse immediately with plenty of water
Remove contaminated clothing and shoes.
Wash clothing before re-using.
- Inhalation : Remove victim to fresh air.
If feeling unwell, immediately seek medical attention.
- Eye contact : Rinse immediately with clean water for 15 minutes.
If feeling unwell, immediately seek medical attention.
- Ingestion : Immediately rinse mouth with water.
Do not induce vomiting.
If feeling unwell, immediately seek medical attention.

5. Fire - fighting measures

Flammable class : Not flammable.
- Suitable : Water spray.
CO₂
Foam.
Powder.
- Not to be used : None.
Special exposure hazards : On exposure to high temperature, may decompose, releasing toxic gases.
Protection against fire : Tight protective clothing required.
Wear self-contained breathing apparatus, rubber boots and rubber gloves.

6. Accidental release measures

Personal precautions	: Dust and/or fine particles, minimize inhalation exposure. Suitable respiratory equipment. Wear impervious safety shoes. Use rubber gloves. Wearing of safety glasses absolutely necessary.
Environmental precautions	: Prevent entry to sewers and public waters.
After spillage and/or leakage	: On land, sweep or shovel into suitable containers. Avoid dust production. Flush with plenty of water.

7. Handling and storage

Storage	: Keep packaging closed when not in use. Store in dry, cool, well-ventilated area.
Handling	: Do not breathe dust. Avoid contact with skin, clothing and eyes. Wash hands plentifully and other exposed areas with water after handling. Remove contaminated clothing and shoes. Wash clothing before re-using. Packagings, even those that have been emptied, will retain product residue. Always obey safety warnings and handle empty packagings as if they were full.

8. Exposure controls / personal protection

- Respiratory protection	: Approved dust respirator should be used if airborne particles are generated when handling this material.
- Hand protection	: Use rubber gloves.
- Skin protection	: Total impervious protective suits and boots must be worn.
- Eye protection	: Chemical goggles or face shield with safety glasses.
- Others	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Exposure controls	: Provide adequate ventilation to minimize dust concentrations.
Exposure limited value	: None TLV known.

9. Physical and chemical properties

Physical state	: Crystals.
Colour	: White.
Odour	: Odourless.
pH value	: 9,3
Melting point [°C]	: >95°C
Initial boiling point [°C]	: Not applicable.
Bulk density	: 1,1 g/cm ³
Solubility in water	: 9 g/100g 20°C
Flash point [°C]	: Not flammable.

10. Stability and reactivity

Physico-chemical stability	: Stable.
Materials to avoid	: No data available.
Conditions to avoid	: Fire. moisture
Hazardous properties	: None.

11. Toxicological information

Toxicity information	: Not toxic. Not harmful.
Rabbit dermal LD50 [mg/kg]	: > 7940
Rat inhalation LC50 [mg/kg]	: No data available.
Rat oral LD50 [mg/kg]	: 12900

12. Ecological information

Ecological effects information	: Phosphates are plant nutrient and as such may contribute to the growth of phytoplanktons in water.
LC50-96 Hour - fish [mg/l]	: No data available.
48 Hour-EC50 - Daphnia magna [mg/l]	: No data available.
IC50 72h Algae [mg/l]	: No data available.

13. Disposal considerations

Disposal	: Comply with local regulations for disposal.
Packaging	: Empty packaging can have residues or dusts and are subject to proper waste disposal, as above.

14. Transport information

General information	: Not classified.
- UN No.	: Material not included in the UN classification of dangerous substances.
- ADR/RI/ADNR	: Not regulated.
- IMO-IMDG code	: Not regulated.
- IMDG-Marine pollution	: No.

15. Regulatory information

- EEC nr	: SUBSTANCE NOT INCLUDED IN THE LIST OF DANGEROUS SUBSTANCES (ANNEX I OF DIRECTIVE 67/548 EEC)
Symbol(s)	
R Phrase(s)	
S Phrase(s)	

16. Other information

Further information	: Revision - See : *
Product information	: REGISTRY TOXIC NUMBER (RTECS/NIOSH) : UX 7350000/UX 6475000

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