

MATERIAL SAFETY DATA SHEET



5 – FIRE-FIGHTING MEASURES

Advised extinguishing agents	Non combustible
Extinguishing agents to be avoided	None
Dangers caused by combustion matters	Ammonia, phosphoric anhydride from thermic decomposition
Protection measures in case of intervention	Breathing apparatus
Additional information	

6 – ACCIDENTAL RELEASES MEASURES

Collection and disposal methods	Collect in appropriate containers for recycle or disposal. Prevent dust formation
Personal-related safety precautions	
Environmental protection	Prevent the introduction of the product within the sewage system or canals

7 – HANDLING AND STORAGE

Handling	Prevent dust formation. Wear suitable protective clothes
Storage	Store in a dry, cool, well-ventilated place suitable for food. Do not store near acids, bases and combusive agents. Pile up only one pallet because the product tends to compact

8 – PERSONAL PROTECTION / EXPOSURE CONTROL

Respiratory protection	In case of dust formation use an appropriate protection for the respiratory system suitable for the emission level. The following equipment should be used: total mask, anti-dust mask, breathing apparatus
Skin protection	Protective clothes and plastic boots
Hand protection	Rubber gloves
Eyes protection	Safety goggles
Exposure limits	TLV-TWA: unknown, 10 mg/m ³ (irritant dusts)

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9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	physical state	Crystals
	colour	White
	smell	Slightly ammoniac
Melting point		155 °C (with decomposition of DAP)
Boiling point		N.A.
Density		1000 kg/m ³
Solubility in water		690 g/L a 20°C
Flash point		N.D.
Inflammability limits (vol % in air)		N.D.
Autoignition temperature		N.D.
pH		7.8-8.5 (5%)

10 – STABILITY AND REACTIVITY

Conditions to be avoided	A pH increase can release free ammonia. Temperature higher than 155°C – Humidity
Products to be avoided	Magnesium, strong bases, strong oxydating agents
Hazardous decomposition products	Heated until decomposition, it releases highly toxic vapours of PO _x , NO _x and NH ₃

11 – TOXICOLOGICAL INFORMATION

Penetration ways	Inhalation yes Ingestion yes Contact no
Acute toxicity	LD50 (oral, rat): 6500 mg/kg
Inhalation consequences	Irritation of mucosae
Ingestion consequences	Unknown
Skin local effects	Unknown
Eyes local effects	Irritation only in case of prolonged contact
Additional information	Included in the USA FDA GRAS list (generally deemed safe). It can be used as an auxiliary product in food processing

12 – ECOLOGICAL INFORMATION

Phosphate causes the growth of algae and can cause a degradation of quality water.
Water toxicity: CL50 Vairone: 155 ppm/96 hours.
Ecotoxicity: Tests on Cyprinids results: 96h LC50 of 115 mg/L.

13 – DISPOSAL CONSIDERATIONS

Product	If practically possible, retrieve and recycle waste or exceeding material. Do not discharge with water jets in the sewage system. Do not mix with alkalis
Contaminated packages	If practically possible, containers and packaging materials must be recycled by an authorized contracting firm

Product: Dibasic Ammonium Phosphate
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14 – TRANSPORT INFORMATION

Product non subject to ADR/RID, IMO and IATA regulations, related to road, sea and airway transport of dangerous goods.

15 – REGULATORY INFORMATION

EC labelling	[]	Required by the law
	[]	Temporary
# Classification	[X]	Not required

16 – OTHER INFORMATION

Hazard symbol

Risk phrases

Safety phrases

This material safety data sheet has been issued in accordance with 2001/58/CE.

Before starting the use of this product for any new process or experiment, it must be carried out a deep study on the safety and the compatibility of the product itself with materials it could come in contact with.

The information contained in this safety data sheet is given to protect health and safety at work. No responsibility is taken for possible damages arising from uses of this information for different purposes from the ones here indicated.

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