



## MATERIAL SAFETY DATA SHEET *pH-DOWN (Bloom)*

### PRODUCT IDENTIFICATION

<b>PRODUCT NAME</b>	Advanced Hydroponics pH-Down Bloom		
<b>SUPPLIER</b>	ADVANCED HYDROPONICS OF HOLLAND Hornweg 316, 1432 GT Aalsmeer, The Netherlands +31-297-363404		
<b>CHEMICAL DESCRIPTION</b>	Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> )		
<b>HAZARDOUS COMPONENTS</b>	Phosphoric Acid (59%) CAS nr. 7664-38-2		
<b>NFPA/HMIS RATING (0-4) (0 = INSIGNIFICANT: 4 = EXTREME)</b>	HEALTH <b>1</b>	FIRE <b>0</b>	REACTIVITY <b>0</b>
	SPECIFIC HAZARD: <b>Some</b>		

### PHYSICAL/CHEMICAL CHARACTERISTICS

<b>BOILING POINT</b>	100°C
<b>VAPOR PRESSURE</b>	Same as water
<b>VAPOR DENSITY</b>	Same as water
<b>EVAPORATION RATE</b>	Same as water
<b>MELTING POINT</b>	Not Applicable
<b>SPECIFIC GRAVITY/DENSITY</b>	1,42 kg/L at 30°C
<b>pH</b>	< 1
<b>SOLUBILITY IN WATER</b>	100%
<b>APPEARANCE</b>	Clear, colourless liquid
<b>ODOR</b>	Slightly pungent

### FIRE AND EXPLOSION INFORMATION

<b>FLASH POINT</b>	Not Applicable
<b>FLAMMABLE LIMITS</b>	Product itself is not flammable
<b>EXTINGUISHING MEDIA</b>	In case of fire in direct surroundings all extinguishing media are permitted, preferably misted water, foam, carbon dioxide, dry ice
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	None known

## REACTIVITY DATA

CONDITIONS TO AVOID	Do not expose to heat. Above 200°C release of toxic phosphoric anhydride is possible.
MATERIALS TO AVOID	Metals, alkalis products Contact with strong oxidizers
STABILITY	Stable at ordinary temperatures
INCOMPATIBILITY	Strong alkalis will release ammonia fumes
HAZARDOUS DECOMPOSITION	
SUITABLE PACKING MATERIALS	plastics, SS 316 L

## HEALTH EFFECTS/FIRST AID INFORMATION

SKIN	IRRITATION, PAIN, BURNS  <b>Wash gently with milk soap/detergent and flowing water. Apply skin lotion if skin has dried. Wash contaminated clothing.</b>
EYES	IRRITATION, PAIN, BLURRY VISION  <b>Rinse immediately with water for 15 minutes, lift eye lids. See physician if irritation persists.</b>
INGESTION	IRRITATION OF THE THROAT, STOMACK PAIN, NAUSEA  <b>Drink plenty of water. More than a mouthful should be purged by vomiting, but only if victim is conscious. See a physician.</b>
INHALATION	IRRITATION OF THE THROAT, COUGHING, SHORT OF BREATH  <b>(Unlikely) Take in fresh air.</b>

## PRECAUTIONS FOR SAFE HANDLING AND USE

RESPIRATORY PROTECTION	Not normally needed. If misting occurs use approved respirator to eliminate exposure
VENTILATION	Exhaust fan recommended to control any misting
PROTECTIVE GLOVES/CLOTHING	Rubber or plastic recommended if repeated or prolonged contact expected.
WORK PRACTICE	Use good housekeeping practices. Keep bottle(s) closed.
SPILLS	Prevent product from entering drinking water supplies or natural waters. Dike area with sand or earth and pump into labeled tank for recycling/salvage if not contaminated by other material. Small quantities may be allowed to dry out and residue swept up and packaged for disposal in approved landfill.
WASTE DISPOSAL METHOD	Absorb product with inert material and package for disposal in approved landfill.
PRECAUTIONS IN STORING AND HANDLING	Store tightly closed, away from children.
EYE PROTECTION	Chemical splash goggles recommended where fine sprays or misting expected, otherwise regular safety glasses adequate