

SAFETY DATA SHEET

FLOCON® 135



1. Identification

Product identifier

Product name FLOCON® 135

Chemical name Phosphinocarboxylic acid

Product number 100496, 100497, 100498, 100499, 100500, 100501, 100502, 100503, 101305, 101306, 101423, 101550

Recommended use of the chemical and restrictions on use

Application Antiscalant

Details of the supplier of the safety data sheet

Supplier BWA Water Additives US LLC
1979 Lakeside Parkway, Suite 925
Tucker, GA 30084 USA
T: +1 800-600-4523
(Technical/commercial enquiries)
F: +1 678-802-3050
E: msds@wateradditives.com

Distributed by:

Emergency telephone number

Emergency telephone Chemtrec Phone: 1-800-424-9300

National emergency telephone number For Medical Emergency: 1-303-623-5716
For Transport Emergency: 1-800-424-9300 (CHEMTREC)

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Label elements

Hazard statements NC Not Classified

3. Composition/information on ingredients

Mixtures

Composition comments Aqueous solution of phosphinocarboxylic acid

4. First-aid measures

Description of first aid measures



FLOCON® 135

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
Skin Contact	Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

Most important symptoms and effects, both acute and delayed

Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known. May cause discomfort if swallowed.
Skin contact	No specific symptoms known. May cause skin irritation/eczema.
Eye contact	No specific symptoms known. May cause temporary eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
-----------------------------	------------------------

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	The product is non-combustible. Extinguish with the following media: Water spray, fog or mist. Foam, carbon dioxide or dry powder.
-------------------------------------	--

Special hazards arising from the substance or mixture

Specific hazards	The product is non-combustible. Irritating gases or vapors. No unusual fire or explosion hazards noted.
Hazardous combustion products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Oxides of: Phosphorus.

Advice for firefighters

Protective actions during firefighting	Move containers from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.
---	--

Special protective equipment for firefighters	Leave danger zone immediately.
--	--------------------------------

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Follow precautions for safe handling described in this safety data sheet.
-----------------------------	---

Environmental precautions

Environmental precautions	Avoid release to the environment. To prevent release, place container with damaged side up.
----------------------------------	---

Methods and material for containment and cleaning up



FLOCON® 135

Methods for cleaning up Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.

Reference to other sections For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Good personal hygiene procedures should be implemented. Avoid spilling. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool place. Store at temperatures not exceeding «Value in °C»°C/«Value in °F»°F. Do not store for extended periods below freezing point or in direct sunlight. IF FROZEN: once fully thawed, agitate container vigorously to ensure the product is homogeneous. Store away from the following materials: Alkalis. Oxidizing materials. Reducing agents. Keep separate from food, feedstuffs, fertilizers and other sensitive material.

Storage class Unspecified storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Exposure controls

Protective equipment



Appropriate engineering controls Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection The following protection should be worn: Chemical splash goggles.

Hand protection Selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC). It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Other skin and body protection Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear apron or protective clothing in case of contact.

Hygiene measures No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

Respiratory protection No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Liquid.



FLOCON® 135

Color	Colorless.
Odor	Slight.
Odor threshold	Not available. Not available.
pH	pH (concentrated solution): 3.5-4.5
Melting point	Not available.
Initial boiling point and range	101 - 103 @°C @ 760 mm Hg
Flash point	> 93°C PMCC (Pensky-Martens closed cup).
Freezing Point:	
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	Not available.
Relative density	1.17-1.20 @ 20c
Solubility(ies)	Miscible with water.
Partition coefficient	log Pow: < 0
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	35 - 60 cSt @ 25°C
Oxidizing properties	Does not meet the criteria for classification as oxidizing.
Other information	Not available.

10. Stability and reactivity

Reactivity	Reacts with alkalis and generates heat.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Will not polymerize.
Conditions to avoid	Avoid excessive heat for prolonged periods of time.
Materials to avoid	Strong alkalis. Strong oxidizing agents.
Hazardous decomposition products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Oxides of the following substances: Phosphorus.

11. Toxicological information

Information on toxicological effects

Supplemental Toxicological Information	A 90-day oral toxicity study in rats indicated bone damage and kidney effects at high doses. The effect for humans is unknown.
---	--

Acute toxicity - oral