

Date: 6 June 2006

Material Safety Data Sheet

Section 1 - Identification of the substance/preparation and company

Trade Name Inhibited Phosphoric Acid
Chemical Name/Synonyms - Orthophosphoric Acid
Formula Mixture
UNNO 1805

Name of Company Aqueous Logic
Address 248 Sutton Common Road
Sutton, Surrey SM3 9PW
Telephone no. (0208) 288-0128

Section 2 - Composition/information on ingredients

Substance	% composition	risk phrases	CAS number
Phosphoric acid	> 80 %	C;R34	7664-38-2

Section 3 - Hazards Identification

Hazards Severe eye, moderate skin and respiratory irritant. Corrosive to most metals, liberates a flammable gas.

Adverse effects

Skin	Will cause irritation, reddening, prolonged exposure will cause blisters.
Eyes	Pain, reddening, watering
Ingestion	Irritation to digestive tract.
Inhalation	Mists irritation the respiratory tract.

As part of our commitment to Responsible Care, we recommend that all purchased chemical products should be only discharged in dilute form to drains that are connected to the sanitary sewer to insure minimal environmental impact. All the ingredients within this product can be degraded/ safely absorbed by the environment

Section 4 - First Aid measures

Skin Drench the skin with plenty of water. Seek medical advice if irritation persists or if large areas of skin are damaged. Remove and wash clothes before reuse.

Eyes Wash with water for at least 10 minutes. Seek medical attention.

Ingestion Wash mouth out with plenty of water. If patient is conscious, give water to drink. Do not induce vomiting. Obtain medical attention.

Inhalation Remove to fresh air. Provide rest and keep warm. Obtain medical advice if recovery is not rapid.

Section 5 - Fire-fighting measures

Suitable extinguishing media	Extinguisher suitable to cause of fire. keep fire exposed containers cool with water spray.
Special protective equipment	Self contained breathing apparatus and full protective clothing
Special exposure hazards	Toxic and explosive fumes may be generated in a fire (oxides of phosphorus). Contact with some metals liberates flammable hydrogen gas which may form an explosive mixture with air.

Section 6 - Accidental release measures

Neutralise with sodium bicarbonate or other suitable reagent. Full body protective clothing and equipment should be worn when dealing with spillages.

For large spills Dike and contain. Place in non-leaking containers for disposal.

For small spills Soak or mop up.

Section 7 - Handling and storage

Handling	Avoid contact with skin and eyes. Respiratory equipment may be needed if using heated product.
Storage	Store at ambient temperatures. Keep away from concentrated sulphides, cyanides, nitrites, sulphites, acetylides, carbides, concentrated alkalis (releases large amounts of heat), metals (releases flammable hydrogen gas).

We recommend that when handling all chemicals, the minimum precautions are the wearing of gloves and goggles. Efforts to minimize contact with chemicals should always be made.

Section 8 - Exposure controls/personal protection

Protective measures -	Respiratory protection self contained breathing apparatus if concentrations are high. Use cartridge type for acid mists.
	Hand protection impervious gloves
	Eye protection goggles
	Skin protection PVC or rubber boots, rubber apron, PVC suit if exposure is great.

Section 9 - Physical and chemical properties

Appearance	pink to red liquid
Odour	pungent characteristic odour
pH	<1
Boiling point	>123 C
Melting point	not established

Flammability	Not flammable
Specific gravity	> 1.4
Solubility in water	complete

Section 10 - Stability and reactivity

Stability	stable. At high temperatures, it can release phosphorus pentoxide fumes.
Conditions to avoid	high temperatures above boiling point
Materials to avoid	cyanides, nitrites, sulphites, acetylides, carbides, silicides, metals, concentrated alkalis
Hazardous decomposition products	Contact with cyanides, nitrites, sulphites, acetylides, silicides and carbides can liberate harmful gases. Reacts with bleach to liberate chlorine gas. Reacts with alkalis to generate heat. Liberates carbon dioxide from carbonates and bicarbonates. Liberates hydrogen gas if in contact with some metals. Hydrogen gas is highly flammable and can form an explosive mixture with air.

Section 11 - Toxicological information

Due to acidic nature, will cause burns to exposed tissue. LD50 1530 mg/kg oral (rat), 2740 mg/kg skin (rabbit)

Section 12 - Ecological information

This product is toxic to marine environment in high concentrations due to its low pH. In diluted form it is not toxic and may act as a plant nutrient or precipitate heavy metals. LC50 for fish, 96h between 100 and 1000 ppm.

Section 13 - Disposal considerations

Large amounts should be given to licensed disposal agency.

Section 14 - Transport information

UNNO 1805

Primary Hazard: corrosive

Packing Group: three

Section 15 - Regulatory information

R34	Causes burns.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

E.E.C. No 231-633-2

Section 16 - Other information

Keep container tightly closed when not in use.
KEEP OUT OF THE REACH OF CHILDREN

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under recommended conditions of use. Any use of this product or method of application which is not described in the Product Data Sheet or on the Product Label is the responsibility of the user.