



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 3132

PRODUCT NAME: **PGA-F**

USE: Phosphating Additive

SUPPLIER:

JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada

EMERGENCY PHONE:

1-800-668-7171

WHMIS CLASSIFICATION: D1A E

CHEMICAL FAMILY: Mineral Acid

TRADE NAME / SYNONYMS: not applicable

CHEMICAL NAME: not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Ammonium bifluoride	10-30	001341-49-7	LD50 130 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:

Gloves: natural rubber or neoprene

Eye: safety goggles

Footwear: rubber boots

Respiratory: If mists are generated, use NIOSH approved mask

Other: rubber apron or suit, face shield

SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Do not breathe mist, spray or vapour. Avoid eye and skin contact.

VENTILATION REQUIREMENTS: Mechanical exhaust.

INCOMPATIBILITY (Material to Avoid): Alkaline or chlorinated materials.

SPILL PROCEDURES: Contain the spill. Do not allow the spilled product to go to drain. SMALL SPILLS: Neutralize with mild alkaline solution and soak up with absorbent clay for disposal. LARGE SPILLS: Flush to holding tank and neutralize with mild alkaline material before disposal.

WASTE DISPOSAL: Dispose according to municipal, provincial, and federal regulations.

STORAGE / SHIPPING REQUIREMENT: Store in a cool dry area in a closed container. Avoid freezing.

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear, colourless liquid

S.G. / BULK DENSITY(g/cc): 1.05

pH: not available

VAPOUR PRESSURE (mmHg): not available

VAPOUR DENSITY (air=1): not available

ODOUR THRESHOLD: not available

BOILING POINT: not available

FREEZING POINT: not available

PERCENT VOLATILE: 85%

SOLUBILITY IN WATER: Soluble

EVAPORATION RATE (water=1): not available

V - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:

EYES: Corrosive. May cause severe irritation. May cause permanent damage if not treated promptly.

SKIN: Corrosive. May cause severe irritation. Contains hydrofluoric acid. May cause ulcerations of the skin and possible fluoride absorption if not treated promptly.

INGESTION: Corrosive. May cause severe irritation of the digestive tract. May cause permanent damage if not treated promptly.

INHALATION: Inhalation of spray or mist may cause severe respiratory irritation.

LD50 (calculated): 880 mg/kg	LC50 (calculated): not available
OTHER TOXIC EFFECTS: Ammonium bifluoride TWA 2.5 mg/m ³	
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: None known.	
VI - FIRST AID MEASURES	
EYES:	Flush eyes with plenty of water for at least 15 minutes. Hold eyelids open while rinsing. Contact a physician immediately.
SKIN:	Flush affected area thoroughly with water. Obtain medical attention immediately. Should this be delayed, apply magnesia paste (magnesium/oxide/glycerine) or milk of magnesia.
INGESTION:	Drink large volumes of water. Never give anything by mouth to an unconscious patient. Do not induce vomiting. Contact a physician immediately.
INHALATION:	Remove patient to fresh air. Contact a physician.
VII - FIRE AND EXPLOSION DATA	
FLAMMABLE: not applicable	
FLASH POINT, °C: not applicable	AUTO IGNITION TEMPERATURE, °C: N/Ap
EXTINGUISHING MEDIA: Water [x] Dry Chemical [x] Carbon Dioxide [x] Foam [x] Other []	
SPECIAL FIRE FIGHTING PROCEDURES: Wear self contained breathing apparatus.	
HAZARDOUS COMBUSTION PRODUCTS: Hydrogen fluoride.	
EXPLOSIVE SENSITIVITY TO: not applicable	
VIII - REACTIVITY DATA	
STABILITY: Stable [x] Unstable []	
CONDITIONS TO AVOID: not available	
INCOMPATIBILITY (Material to Avoid) : Alkaline or chlorinated compounds. Heat and/or toxic gases generated upon contact. Do not allow contact with glass and ceramic materials.	
HAZARDOUS DECOMPOSITION PRODUCTS: not applicable	
REACTIVITY: Not dangerously reactive.	
IX - MSDS PREPARATION	
SOURCES USED: RTECS, ChemInfo	PREPARED BY: JohnsonDiversey Canada. Inc. Regulatory Department Industrial Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	
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