



I - PRODUCT IDENTIFICATION AND USE				MSDS ID: 03657
<b>PRODUCT NAME: PGA-F</b>				
<b>USE:</b> Metal Finishing Additive				
<b>SUPPLIER:</b> JohnsonDiversey Canada, Inc. 2401 Bristol Circle Oakville Ontario, L6H 6P1, Canada		<b>EMERGENCY PHONE:</b>  <b>1-800-668-7171</b>		
<b>WHMIS CLASSIFICATION:</b> D1A E <b>CHEMICAL FAMILY:</b> Acidic Salt		<b>TRADE NAME / SYNONYMS:</b> not applicable <b>CHEMICAL NAME:</b> not applicable		
II - HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Ammonium bifluoride	10-30	001341-49-7	Not available	
III - HANDLING AND DISPOSAL PROCEDURES				
<b>PERSONAL PROTECTIVE EQUIPMENT:</b>				
<b>Gloves:</b> Natural rubber, neoprene or nitrile		<b>Eye:</b> Safety goggles		<b>Footwear:</b> Rubber boots
<b>Respiratory:</b> If mists are generated, use NIOSH approved mask		<b>Other:</b> Rubber apron or suit, face shield		
<b>SPECIAL HANDLING PROCEDURES AND EQUIPMENT:</b> Do not breathe mist, spray or vapour. Avoid eye and skin contact.				
<b>VENTILATION REQUIREMENTS:</b> Mechanical exhaust.				
<b>INCOMPATIBILITY (Material to Avoid):</b> Acids, alkaline or chlorinated materials, glass, ferrous alloys.				
<b>SPILL PROCEDURES:</b> Wear protective clothing. Contain the spill. Do not allow the spilled product to go to drain. Flush to holding tank and neutralize with mild alkaline material before disposal.				
<b>WASTE DISPOSAL:</b> Dispose according to municipal, provincial, and federal regulations.				
<b>STORAGE / SHIPPING REQUIREMENT:</b> Store in a cool dry area in a closed container. Avoid freezing.				UN2817
IV - PHYSICAL PROPERTIES				
<b>APPEARANCE / ODOUR:</b> Clear, colourless liquid				
<b>S.G. / BULK DENSITY(g/cc):</b> 1.05		<b>pH:</b> not available		
<b>VAPOUR PRESSURE (mmHg):</b> 17.5 @ 20°C		<b>VAPOUR DENSITY (air=1):</b> not available		
<b>ODOUR THRESHOLD:</b> not available		<b>BOILING POINT:</b> not available		
<b>FREEZING POINT:</b> not available		<b>PERCENT VOLATILE:</b> 85%		
<b>SOLUBILITY IN WATER:</b> Soluble		<b>EVAPORATION RATE (water=1):</b> not available		
V - TOXICOLOGICAL PROPERTIES				
<b>EFFECTS OF ACUTE EXPOSURE TO MATERIAL:</b>				
<b>EYES:</b> Corrosive. May cause severe irritation. May cause permanent damage if not treated promptly.				
<b>SKIN:</b> Corrosive. May cause severe irritation. Contains hydrofluoric acid. May cause ulcerations of the skin and possible fluoride absorption if not treated promptly.				
<b>INGESTION:</b> Corrosive. May cause severe irritation of the digestive tract. May cause permanent damage if not treated promptly.				
<b>INHALATION:</b> Inhalation of spray or mist may cause severe respiratory irritation.				
<b>LD50 (calculated):</b> not available		<b>LC50 (calculated):</b> not available		

**OTHER TOXIC EFFECTS:** Ammonium bifluoride TWA 2.5 mg/m3

**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 immediately.

### VII - FIRE AND EXPLOSION DATA

**FLAMMABLE:** No

**FLASH POINT, °C:** not applicable

**AUTO IGNITION TEMPERATURE, °C:** N/Ap

**EXTINGUISHING MEDIA:** Water [ ] Dry Chemical [x] Carbon Dioxide [x] Foam [x] Other [ ]

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self contained breathing apparatus.

**HAZARDOUS COMBUSTION PRODUCTS:** Hydrogen fluoride, ammonia, oxides of nitrogen.

**EXPLOSIVE SENSITIVITY TO:** not applicable

### VIII - REACTIVITY DATA

**STABILITY:** Stable [x] Unstable [ ]

**CONDITIONS TO AVOID:** Heat

**INCOMPATIBILITY (Material to Avoid) :** Acids, alkaline or chlorinated compounds, glass, ferrous alloys. Heat and/or toxic gases generated upon contact. Do not allow contact with glass and ceramic materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Reacts with acids to liberate hydrogen fluoride and alkali to liberate ammonia.

**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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