



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product X-Clean & Prep (Rinse & Etch)
Product Use Metal Brightener

Manufacturer xGen, LLC
118 Rochester Drive
Louisville, KY 40214
502-364-6050

24 Hour Emergency Telephone Chemtrec 800-424-9300

Date 3/31/09
Preparer Signature

SECTION 2 – HAZARDOUS INGREDIENTS

Hazardous Ingredients	CAS Number	EXPOSURE LIMITS
Phosphoric Acid	7664-38-2	OSHA PEL TWA 1 mg/m ³
Dipropylene Glycol Methyl Ether	034590-94-8	OSHA PEL TWA 100ppm (600mg/m ³) skin

DOT Description
Compounds, cleaning liquid (containing Phosphoric Acid) 8, NA 1760, PG III

SECTION 3 – PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point	212° F	Melting Point
Vapor Pressure	< air	Vapor Density
Specific Gravity	1.22	Evaporation Rate
Solubility in Water		
Appearance and Odor	Water clear with a mild solvent odor	

SECTION 4 – FIRE AND EXPLOSION DATA

Flash point	None	Flammable Limits	NA
Extinguishing Media	Water Spray, Dry Chemical, Carbon Dioxide(CO2), Alcohol Foam		
Fire and explosion hazards	Will release hydrogen chloride gas when heated		
Special firefighting procedures	No specific firefighting procedures or requirements		

SECTION 5 – REACTIVITY DATA

Stability	Stable	Conditions to Avoid
Incompatibility (materials to avoid)	Strong Oxidizing Agents	
Hazardous Decomposition Product	Phosphoric oxide may be emitted if temperatures reach thermal decomposition	
Hazardous Polymerization	No	

SECTION 6 – HEALTH HAZARD INFORMATION AND FIRST AID

Routes of Entry	Eyes, Skin, Inhalation & Ingestion
Health Hazards / Signs & Symptoms of Exposure	Eyes – permanent damage if not treated Skin – burns Inhaled - may cause irritation to pulmonary passages Ingested – burns to esophagus Generally aggravated by exposure
Medical conditions aggravated by exposure	
FIRST AID PROCEDURES	
Eyes	Flush with water and seek medical attention.
Skin	Wash with soap & water; if irritation persists seek medical attention.
Inhalation	Get fresh air. Begin respiratory support if needed.
Ingestion	Do not induce vomiting - Drink water / milk / magnesia. Seek medical attention immediately.

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE

Leak and Spills Procedures	Neutralize spills with soda ash
Waste Disposal Method	In accordance with state, local and federal regulations
Precautions in Handling and Storage	Keep container closed when not in use
Other Precautions	

SECTION 8 – CONTROL MEASURES

Respiratory Protection	If TLV is exceeded, wear a NIOSH approved respirator (N100, R100 or P100 filters)
Ventilation	Mechanical is satisfactory
Eye Protection	Safety glasses
Protective Gloves	Chemical resistant gloves
Work / Hygienic Practices	Boots and apron if working conditions merit Handle in a manner consistent with good industrial techniques and practices

X-Clean & Prep (Rinse & Etch) MSDS
Page 3 of 3

The information contained on this MSDS has been checked and should be accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

<END OF MSDS>