



# Material Safety Data Sheet

Extra



## Section 1. Chemical Product and Company Identification

<b>Supplier</b>	HG USA, Inc.	<b>MSDS#</b>	1.02
<b>Address</b>	1328 River Avenue, pmb 332 Lakewood, NJ 08701	<b>Validation Date</b>	12-3-2002
<b>Telephone No.:</b>	+1.888.615.2128	<b>Print Date</b>	13-3-2002
<b>Manufacturer</b>	HG International b.v.	<b>Responsible Name</b>	P. Stienstra
<b>Country</b>	Netherlands	<b>Product No.</b>	101100102
<b>In Case of Emergency</b>	Chem. Tel Inc. (813) 248 0585 or Toll free (800) 255 3924		

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Phosphoric acid	7664-38-2	10-30	TWA: 1 (mg/m <sup>3</sup> ) from OSHA (PEL) [United States] TWA: 1 STEL: 3 (mg/m <sup>3</sup> ) from ACGIH (TLV) [United States]
2) Oxalic acid	144-62-7	1-5	TWA: 1 (mg/m <sup>3</sup> ) from OSHA (PEL) [United States] TWA: 1 STEL: 2 (mg/m <sup>3</sup> ) from ACGIH (TLV) [United States]
3) Isopropyl alcohol	67-63-0	1-5	TWA: 400 (ppm) from OSHA (PEL) [United States] TWA: 400 (ppm) from ACGIH (TLV) [United States] CEIL: 500 (ppm) from OSHA (PEL) [United States]

## Section 3. Hazards Identification

<b>Physical State and Appearance</b>	Liquid.
<b>Emergency Overview</b>	CAUTION! CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
<b>Routes of Entry</b>	Skin, eyes and ingestion
<b>Potential Acute Health Effects</b>	<p><b>Eyes</b> Hazardous in case of eye contact (irritant).</p> <p><b>Skin</b> Sensitization of the product: Not available. Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.</p> <p><b>Inhalation</b> Irritating to respiratory system.</p> <p><b>Ingestion</b> May cause burns to mouth, throat and stomach.</p>
<b>Potential Chronic Health Effects</b>	CARCINOGENIC EFFECTS: Not regulated. MUTAGENIC EFFECTS: Not regulated. TERATOGENIC EFFECTS: Not regulated.
<b>Medical Conditions Aggravated by Overexposure:</b>	Repeated or prolonged exposure is not known to aggravate medical condition.
<b>Overexposure /Signs/Symptoms</b>	Severe burns to skin, eyes, internal system.
<b>See Toxicological Information (section 11)</b>	

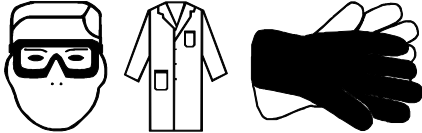
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<b>Section 4. First Aid Measures</b>	
<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
<b>Notes to Physician</b>	Not available.
<b>Section 5. Fire Fighting Measures</b>	
<b>Flammability of the Product</b>	Product supports combustion.
<b>Auto-ignition Temperature</b>	Not applicable.
<b>Flash Points</b>	CLOSED CUP: Between 61°C (142°F) and 93.3°C (200°F).
<b>Flammable Limits</b>	Not applicable.
<b>Products of Combustion</b>	carbon oxides (CO, CO <sub>2</sub> )
<b>Fire Hazards in Presence of Various Substances</b>	Not applicable.
<b>Explosion Hazards in Presence of Various Substances</b>	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
<b>Fire Fighting Media and Instructions</b>	In case of fire, use water spray (fog), foam, dry chemical, or CO <sub>2</sub> . Do not use water jet. Avoid breathing dusts, vapors, or fumes from burning materials. <b>LARGE FIRE</b> Qualified persons wearing full fire-fighting suits and approved/certified self-contained breathing apparatus.
<b>Protective Clothing (Fire)</b>	Protective Clothing Boots. Gloves. Wear appropriate respirator when ventilation is inadequate.
<b>Special Remarks on Fire Hazards</b>	No additional remark.
<b>Special Remarks on Explosion Hazards</b>	No additional remark.
<b>Section 6. Accidental Release Measures</b>	
<b>Small Spill and Leak</b>	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: <b>Neutralize the residue with a dilute solution of sodium carbonate.</b>
<b>Large Spill and Leak</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal. <b>Neutralize the residue with a dilute solution of sodium carbonate.</b> Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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<b>Section 7. Handling and Storage</b>			
<b>Handling</b>	Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.		
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.		
<b>Section 8. Exposure Controls/Personal Protection</b>			
<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.		
<b>Personal Protection</b>	<p><i>Eyes</i> Splash goggles.</p> <hr/> <p><i>Body</i> Lab coat.</p> <hr/> <p><i>Respiratory</i> Wear appropriate respirator when ventilation is inadequate.</p> <hr/> <p><i>Hands</i> Gloves.</p> <hr/> <p><i>Feet</i> Boots (advisable)</p>		
<b>Protective Clothing (Pictograms)</b>			
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.		
<b>Product Name</b>	<b>Exposure Limits</b>		
1) Phosphoric acid	TWA: 1 (mg/m <sup>3</sup> ) from OSHA (PEL) [United States] TWA: 1 STEL: 3 (mg/m <sup>3</sup> ) from ACGIH (TLV) [United States]		
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3) Isopropyl alcohol	TWA: 400 (ppm) from OSHA (PEL) [United States] TWA: 400 (ppm) from ACGIH (TLV) [United States] CEIL: 500 (ppm) from OSHA (PEL) [United States]		
<b>Consult local authorities for acceptable exposure limits.</b>			
<b>Section 9. Physical and Chemical Properties</b>			
<b>Physical State and Appearance</b>	Liquid.	<b>Odor</b>	Perfumed
<b>Critical Temperature</b>	Not available.	<b>Taste</b>	Not available.
<b>Density</b>	1.135 g/cm <sup>3</sup>	<b>Color</b>	Colorless to light yellow.
<b>pH (1% Soln/Water)</b>	2.03 [Acidic.]		
<b>Boiling/Condensation Point</b>	The lowest known value is 82°C (179.6°F) (Isopropylalcohol (IPA)). Weighted average: 99.5°C (211.1°F)		
<b>Melting/Freezing Point</b>	May start to solidify at 42°C (107.6°F) based on data for: H3PO4. Weighted average: 7.24°C (45°F)		
<b>Flash point</b>	CLOSED CUP: Between 61°C (142°F) and 93.3°C (200°F).		
<b>Viscosity</b>	Not available.		
<b>Odor Threshold</b>	Not available.		
<b>Dispersion Properties</b>	See solubility in water.		
<b>Date of issue</b>	12-3-2002.	<b>Version</b>	1.02
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<b>Solubility</b>	Easily soluble in cold water, hot water.
<b>Physical Chemical Comments</b>	Solubility in other solvents: not soluble
<b>Section 10. Stability and Reactivity</b>	
<b>Stability and Reactivity</b>	The product is stable.
<b>Conditions of Instability</b>	Not available.
<b>Incompatibility with Various Substances</b>	Highly reactive with Chlorine bleaching agent Reactive with alkalis metals
<b>Hazardous Decomposition Products</b>	Reaction with chlorine bleaching agents gives toxic gas (Chlorine)
<b>Hazardous Polymerization</b>	Will not occur.
<b>Section 11. Toxicological Information</b>	
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 375 mg/kg [Rat]. (Oxalic acid). Acute dermal toxicity(LD50): 12800 mg/kg [Rabbit]. (Isopropylalcohol (IPA)). Acute oral toxicity (LD50): 1530 mg/ kg [Rat] (Phosphoric acid) Acute dermal toxicity (LD50): 2740 mg/kg [Rabbit] (Phosphoric acid)
<b>Chronic Effects on Humans</b>	Not available.
<b>Other Toxic Effects on Humans</b>	Hazardous in case of skin contact (irritant). Eye irritation
<b>Special Remarks on Toxicity to Animals</b>	Very low toxicity for animals.
<b>Special Remarks on Chronic Effects on Humans</b>	Not available.
<b>Special Remarks on Other Toxic Effects on Humans</b>	Not available.
<b>Section 12. Ecological Information</b>	
<b>Ecotoxicity</b>	This product is not water contaminating
<b>BOD5 and COD</b>	Not available.
<b>Biodegradable/OECD</b>	This product is fully biodegradable
<b>Mobility</b>	Not available. not available
<b>Toxicity of the Products of Biodegradation</b>	The product itself and its products of degradation are not toxic.
<b>Special Remarks on the Products of Biodegradation</b>	Not available.

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### Section 13. Disposal Considerations

**Waste Information** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Waste Stream** Not available.

**Consult your local or regional authorities.**

### Section 14. Transport Information

**DOT Classification** UN 1760, CORROSIVE LIQUID N.O.S. (Phosphoric acid, 20%, mixture), Class 8, PG III



**Marine Pollutant** Not applicable

**Hazardous Substances Reportable Quantity** Not available.

**Special Provisions for Transport** ORM-D / CONSUMER COMMODITY for inner packages less than 1 liter

**TDG Classification** UN 1760, CORROSIVE LIQUID N.O.S. (Phosphoric acid, 20%, mixture), Class 8, PG III

**ADR/RID Classification** UN 1760, "dangerous goods in limited quantities of class 8, III, ADR

**IMO/IMDG Classification** "dangerous goods in limited quantities of class 8", UN 1760, PG III

**ICAO/IATA Classification** CLASS 8: Corrosive liquid.

**UN number** 1760

### Section 15. Regulatory Information

**HCS Classification** HCS Class: Corrosive liquid.

**U.S. Federal Regulations**  
TSCA: No products were found.  
SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: No products were found.  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.  
SARA 313 toxic chemical notification and release reporting: Phosphoric acid  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean air act (CAA) 112 accidental release prevention: No products were found.  
Clean air act (CAA) 112 regulated flammable substances: No products were found.  
Clean air act (CAA) 112 regulated toxic substances: No products were found.

#### International Regulations

**WHMIS (Canada)** WHMIS Class E: Corrosive liquid.

No products were found.


**EINECS** Not available.

**DSCL (EEC)** R36/38- Irritating to eyes and skin.

**International Lists** No products were found.

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<b>State Regulations</b>	No products were found. California prop. 65: No products were found.										
<b>Section 16. Other Information</b>											
<b>Label Requirements</b>	CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION.										
<b>Hazardous Material Information System (U.S.A.)</b>	<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td style="background-color: #00b0f0; color: white;">Health</td><td style="width: 20px; text-align: center;">1</td></tr> <tr><td style="background-color: #ff0000; color: white;">Fire Hazard</td><td style="text-align: center;">1</td></tr> <tr><td style="background-color: #ffff00;">Reactivity</td><td style="text-align: center;">1</td></tr> <tr><td>Personal Protection</td><td style="text-align: center;">b</td></tr> </table>	Health	1	Fire Hazard	1	Reactivity	1	Personal Protection	b	<b>National Fire Protection Association (U.S.A.)</b>	
Health	1										
Fire Hazard	1										
Reactivity	1										
Personal Protection	b										
<b>References</b>	Not available.										
<b>Other Special Considerations</b>	Not available.										
<b>Validated by P. Stienstra on 12-3-2002.</b>		<b>Verified by P. Stienstra.</b>									
		<b>Printed 13-3-2002.</b>									
<b>In Case of Emergency</b>	Chem. Tel Inc. (813) 979 0626 or Toll free (800) 255 3924										
<b>Notice to Reader</b>											
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