



# MATERIAL SAFETY DATA SHEET

## TWENTY-TO-ONE Concentrated Glass Cleaner

Version Number: 1

Preparation date: 2005-08-29

1. PRODUCT AND COMPANY IDENTIFICATION	
Product name:	TWENTY-TO-ONE Concentrated Glass Cleaner
MSDS #:	MS0600079
Product code:	U22969
Recommended use:	Specialty Cleaner .
Manufacturer, importer, supplier:	Unisource Worldwide, Inc. 6600 Governors Lake Parkway Norcross, GA 30071 Phone: 770-447-9000 MSDS Internet Address: www.unisourcelink.com
Emergency telephone number:	1-800-535-5053

2. HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW	
<ul style="list-style-type: none"><li>• WARNING</li><li>• FLAMMABLE LIQUID AND VAPOR</li><li>• CONCENTRATE</li><li>• CAUSES EYE AND SKIN IRRITATION</li></ul>	
Principle routes of exposure:	<ul style="list-style-type: none"><li>• Eyes</li><li>• Skin</li><li>• Inhalation</li></ul>
Inhalation:	<ul style="list-style-type: none"><li>• May be irritating to nose, throat, and respiratory tract</li></ul>
Ingestion:	<ul style="list-style-type: none"><li>• May be irritating to mouth, throat and stomach</li></ul>
Skin contact:	<ul style="list-style-type: none"><li>• May be mildly irritating to skin</li></ul>
Eye contact:	<ul style="list-style-type: none"><li>• Moderately irritating to the eyes</li></ul>

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### HAZARDOUS COMPONENTS

Ingredient	CAS #	Weight %
Isopropyl alcohol	67-63-0	10 - 30%

#### HAZARDOUS COMPONENTS

Ingredient	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl alcohol	5000 mg/kg (rat)	12800 mg/kg (rabbit)	16000 ppm/8H (rat)

### 4. FIRST AID MEASURES

Eye contact:	<ul style="list-style-type: none"><li>• Flush immediately with plenty of water</li><li>• If irritation persists, get medical attention</li></ul>
Skin contact:	<ul style="list-style-type: none"><li>• Flush immediately with plenty of water</li><li>• Get medical attention if irritation occurs</li></ul>
Inhalation:	<ul style="list-style-type: none"><li>• If breathing is affected, remove to fresh air</li><li>• Get medical attention</li></ul>
Ingestion:	<ul style="list-style-type: none"><li>• Immediately drink one cupful of water or milk</li><li>• Never give anything by mouth to an unconscious person</li><li>• Get medical attention</li></ul>
Aggravated Medical Conditions:	<ul style="list-style-type: none"><li>• Persons with pre-existing skin disorders may be more susceptible to irritating effects</li></ul>

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	<ul style="list-style-type: none"><li>• Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam</li></ul>
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<b>Specific hazards:</b>	• Not applicable
<b>Unusual hazards:</b>	• None known
<b>Specific methods:</b>	• Do not attempt to extinguish the fire without a self-contained breathing apparatus (SCBA)
<b>Special protective equipment for firefighters:</b>	
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear	
<b>Extinguishing media which must not be used for safety reasons:</b>	
No information available	

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	• Put on appropriate personal protective equipment (see Section 8.)
<b>Environmental precautions and clean-up methods:</b>	<ul style="list-style-type: none"> <li>• Clean-up methods - large spillage</li> <li>• Prevent product from entering drains</li> <li>• Soak up with inert absorbent material</li> <li>• Sweep up and shovel into suitable containers for disposal</li> <li>• Use a water rinse for final clean-up</li> </ul>

### 7. HANDLING AND STORAGE

<b>Handling:</b>	<ul style="list-style-type: none"> <li>• Avoid contact with skin, eyes and clothing</li> <li>• Wash thoroughly after handling</li> </ul>
FOR COMMERCIAL AND INDUSTRIAL USE ONLY	
<b>Storage:</b>	<ul style="list-style-type: none"> <li>• Protect from freezing</li> <li>• Store in a cool, dry, well ventilated area away from heat or open flame</li> <li>• Keep out of the reach of children</li> </ul>

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering measures to reduce exposure:</b>	
<ul style="list-style-type: none"> <li>• No special ventilation requirements</li> <li>• General room ventilation is adequate</li> </ul>	
<b>Personal Protective Equipment</b>	
<b>Eye protection:</b>	• No special requirements under normal use conditions
<b>Hand protection:</b>	• No special requirements under normal use conditions
<b>Skin and body protection:</b>	<ul style="list-style-type: none"> <li>• No special requirements under normal use conditions</li> <li>• If major exposure is possible, wear suitable protective clothing and footwear</li> </ul>
<b>Respiratory protection:</b>	• No special requirements under normal use conditions
<b>Hygiene measures:</b>	• Handle in accordance with good industrial hygiene and safety practice

**None Required**

Ingredient	CAS #	ACGIH	OSHA	Mexico
Isopropyl alcohol	67-63-0	400 ppm (STEL) 200 ppm (TWA)	980 mg/m <sup>3</sup> 400 ppm	1225 mg/m <sup>3</sup> (STEL) 980 mg/m <sup>3</sup> (TWA)

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid	<b>Appearance:</b>	Aqueous solution
<b>Color:</b>	Clear Dark Blue	<b>Odor:</b>	Cool Rain
<b>Specific gravity:</b>	0.97	<b>pH:</b>	11.5
<b>Dilution pH:</b>	No information available	<b>Density:</b>	8.09
<b>Bulk density:</b>	No information available	<b>Vapor density:</b>	No information available
<b>Evaporation rate:</b>	No information available	<b>Solubility:</b>	Soluble
<b>VOC:</b>	16.76	<b>Viscosity:</b>	No information available
<b>Solubility in other solvents:</b>	No information available		
<b>Partition coefficient (n-octanol/water):</b>	No information available		

Boiling point/range:	Not determined
Melting point/range:	Not determined
Flash point:	86 (°F)30 (°C)
Decomposition temperature:	Not determined
Autoignition temperature:	No information available

### 10. STABILITY AND REACTIVITY

Stability:	• The product is stable
Polymerization:	• Hazardous polymerisation does not occur
Hazardous decomposition products:	• None reasonably foreseeable

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity	<ul style="list-style-type: none"> <li>• Oral</li> <li>• LD50 estimated to be greater than 5000 mg/kg</li> <li>• Dermal</li> <li>• LD50 estimated to be &gt; 2000 mg/kg</li> </ul>
Component Information:	• See Section 3
Chronic toxicity:	• None known
<u>Specific effects</u>	
Carcinogenic effects:	• None known
Mutagenic effects:	• None known
Reproductive toxicity:	• None known
Target organ effects:	• None known

### 12. ECOLOGICAL INFORMATION

Environmental Information:	• no data available
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### 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	• Undiluted product is regulated under environmental and transportation laws as an ignitable waste
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### 14. TRANSPORT INFORMATION

DOT/IDG:	• Please refer to the Bill of Lading/receiving documents for up to date shipping information
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### 15. REGULATORY INFORMATION

<u>International Inventories</u>	
All components of this product are listed on the following inventories: U.S.A. (TSCA).	
<u>U.S. Regulations</u>	
California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65	
<u>SARA 311/312 Hazard Categories</u>	
Immediate:	Y
Delayed:	N
Fire:	Y
Reactivity:	N
Sudden Release of Pressure:	N

<u>Canada</u>		
Ingredient	CAS #	NPRI
Isopropyl alcohol	67-63-0	Listed

<b>WHMIS hazard class:</b>	Not for sale in Canada .
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**STATE RIGHT TO KNOW**

Ingredient	CAS #	NJRTK:	MARTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
Ammonium hydroxide	1336-21-6	Listed	Listed	Listed	-	Listed	Listed
Water	7732-18-5	-	-	-	-	-	-
Hexylene glycol	107-41-5	Listed	Listed	Listed	Listed	Listed	-
Isopropyl alcohol	67-63-0	Listed	Listed	Listed	Listed	Listed	Listed
Sodium lauryl sulfate	151-21-3	-	-	-	-	-	-

**CERCLA / SARA**

Ingredient	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Ammonium hydroxide	1336-21-6	0.1 - 1.5%	1000		Listed.
Isopropyl alcohol	67-63-0	10 - 30%	100		Listed.

**16. OTHER INFORMATION**

HMIS	Health	2	Fire Hazard	2	Reactivity	0
NFPA	Health:	2	Flammability:	2	Instability:	0

<b>Reason for revision:</b>	Not applicable
<b>Prepared by:</b>	NAPRAC
<b>Additional advice:</b>	None

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