



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

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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	<ul style="list-style-type: none">• Use dry chemical, CO₂, water spray or "alcohol" foam
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Specific hazards:	• Not applicable
Unusual hazards:	• None known
Specific methods:	• Do not attempt to extinguish the fire without a self-contained breathing apparatus (SCBA)
Special protective equipment for firefighters:	
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear	
Extinguishing media which must not be used for safety reasons:	
No information available	

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:	
<ul style="list-style-type: none"> • No special ventilation requirements • General room ventilation is adequate 	
Personal Protective Equipment	
Eye protection:	• No special requirements under normal use conditions
Hand protection:	• No special requirements under normal use conditions
Skin and body protection:	<ul style="list-style-type: none"> • No special requirements under normal use conditions • If major exposure is possible, wear suitable protective clothing and footwear
Respiratory protection:	• No special requirements under normal use conditions
Hygiene measures:	• 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 ³ 400 ppm	1225 mg/m ³ (STEL) 980 mg/m ³ (TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Appearance:	Aqueous solution
Color:	Clear Dark Blue	Odor:	Cool Rain
Specific gravity:	0.97	pH:	11.5
Dilution pH:	No information available	Density:	8.09
Bulk density:	No information available	Vapor density:	No information available
Evaporation rate:	No information available	Solubility:	Soluble
VOC:	16.76	Viscosity:	No information available
Solubility in other solvents:	No information available		
Partition coefficient (n-octanol/water):	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"> • Oral • LD50 estimated to be greater than 5000 mg/kg • Dermal • LD50 estimated to be > 2000 mg/kg
Component Information:	• See Section 3
Chronic toxicity:	• None known
Specific effects	
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

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

Canada		
Ingredient	CAS #	NPRI
Isopropyl alcohol	67-63-0	Listed

WHMIS hazard class:	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

Reason for revision:	Not applicable
Prepared by:	NAPRAC
Additional advice:	None

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