

Material Safety Data Sheet  
 May be used to comply with  
 OSHA's Hazard Communication Standard,  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements

U.S. Department of Labor  
 Occupational Safety and Health  
 Administration  
 (Non-Mandatory Form)  
 OMB no. 1218-0072

Identity ( as used on Label & List)

Note: Blank spaces are not permitted. If any item  
 is not applicable, or no information is applicable  
 the space must be marked to indicate that.

**GLASS CLEANER CONCENTRATE**

**Section I**

Manufacturer's Name :  
 Duraclean International, Inc.

Emergency Telephone Number :  
 847-704-7100

Address (Number, Street):  
 220 Campus Drive

Telephone Number for information :  
 847-704-7100

Address (City, State & Zip Code):  
 Arlington Heights, IL 60004

Date Prepared: July, 1986  
 Revised: June 9, 1987

Signature of Preparer:  
 Henry Hakewill, Jr.

**Section II - Hazardous Ingredients / Identity Information**

Hazard Components (Specific Chemical Identity): (Specific Chemical Identity: Common Name(s)	OSHA PEL	ACGIH TLV	Other Limits Recommended	% Opt.
Isopropanol		400ppm		
Glycol Ether		25ppm		
Ammonium Hydroxide		25ppm		
Diethylene Glycol		100ppm		

Product is a blend of solvents in a water base

Not Estab.

**Section III - Physical / Chemical Characteristics**

Boiling Point (°F)	NIA*	Specific Gravity (H2O=1)	NIA
Vapor Pressure (mmHg)	NIA	Melting Point	NIA
Vapor Density (AIR = 1)	NIA	Evaporation Rate (Butyl Acetate =1)	NIA

Solubility in Water  
 completely miscible

Appearance and Odor  
 colorless liquid with pugent odor

**Section IV - Fire and Explosion Hazard Data**

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media N/A			

**Section IV - Fire and Explosion Hazard Data cont.**

Special Fire Fighting Procedures  
use water spray to keep containers cool

Unusual Fire and Explosion Hazards  
N/A

**Section V - Reactivity Data**

Stability	Unstable		Conditions to Avoid
	Stable	X	N/A

Incompatibility (Materials to Avoid)  
strong oxidizing materials

Hazardous Decomposition or Byproducts  
carbon monoxide, carbon dioxide

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will not Occur	X	N/A

**Section VI - Health Hazard Data**

Route(s) of Entry:                      Inhalation?    Yes                      Skin?    Yes                      Ingestion?    Yes

Health Hazards (Acute and Chronic)  
Eye contact causes acute irritation. Prolonged contact with skin (immersion) will defat and dry skin causing a chronic dry skin problem. Inhalation will bring on dizziness and a light-headed feeling. Ingestion irritates mouth, throat and stomach mucous membranes.

Carcinogenicity:                      NPT?                      IARC Monographs?                      OSHA Regulated?  
N/A

Signs & Symptoms of Exposure  
Bloodshot eyes, unsteadiness in walking, burning sensation in mouth and throat.

Medical Conditions  
Generally Aggravated by Exposure  
Breathing difficulties and sensitive skin.

Emergency and First Aid Procedures  
Eyes: immediately flush with water for 15 minutes.    Skin: wash off with water.    Inhalation: remove to fresh air.    Ingestion: induce vomiting with Ipecac. Give orange juice and give Metamucil in a glass of water. Call a physician.

Emergency and First Aid Procedures cont.

**Section VII - Precautions for Safe Handling and Use**

Steps to be Taken in Case Material is Released or Spilled

For small quantities, flush with water into sewer. For large quantities, provide good ventilation, absorb with inert solid material, shovel into drums and seal for disposal.

**Waste Disposal Method**

Dispose of sealed drums in an approved hazardous waste management facility.

**Precautions to be Taken in Handling and Storing**

Store at room temperature or in a cool well ventilated area.

**Section VIII - Control Measures**

**Respiratory Protection (Specify Type)** Use NIOSH approved cartridge respirator when vapor concentration exceeds threshold limit value.

Ventilation	Local Exhaust: Good natural draft is adequate	Special N/A
	Mechanical (General) not required	Other N/A

Protective Gloves not required	Eye Protection Production personnel should wear chemical safety goggles
-----------------------------------	--

**Other Protective Clothing or Equipment**  
Production personnel should wear a rubber apron.

**Work/Hygienic Practices**

DO NOT take internally. Wash hands before eating.