

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) Solvent Blue, Solvent Red, Solvent Yellow, Solvent Black Dyes	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.
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Section I

Manufacturer's Name : Duraclean International, Inc.	Emergency Telephone Number : CHEMTREC 800-424-9300
Address (Number, Street): 220 Campus Drive	Telephone Number for information : 847-704-7100
Address (City, State & Zip Code): Arlington Heights, IL 60004	Date Prepared: September 18, 1990 Revised: October 31, 1990
	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.
Perchloroethylene		50ppm		
1,1,1-Trichloroethane		100ppm		
Methylene Chloride		500ppm		

Section III - Physical / Chemical Characteristics

Boiling Point (°F) 113-158	Specific Gravity (H2O=1) 1.4
Vapor Pressure (mmHg)	Melting Point 100
Vapor Density (AIR = 1)	Evaporation Rate (Butyl Acetate = 1)

Solubility in Water
 Less than 0.5% by weight

Appearance and Odor
 Colorless, with solvent odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) None	Flammable Limits (In air)	LEL	UEL
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Extinguishing Media
 Water, dry chemical or carbon dioxide

Section IV - Fire and Explosion Hazard Data cont.

Special Fire Fighting Procedures

Fire fighters should wear pressure-demand, self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

Decomposition results in release of hydrogen chloride & traces of phosgene.

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)

Caustic soda, caustic potash, oxidizing materials

Hazardous Decomposition or Byproducts

Hydrogen chloride, phosgene (trace amounts)

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will not Occur	X	

Section VI - Health Hazard Data

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

Health Hazards (Acute and Chronic)

Carcinogenicity: NPT? IARC Monographs? OSHA Regulated?

Signs & Symptoms of Exposure

Irritation of respiratory tract, dizziness, nausea, acute liver damage & headache. Eye discomfort, pain & irritation. Skin contact causes irritation & dermatitis. Potential Carcinogen.

Medical Conditions

Generally Aggravated by Exposure

Emergency and First Aid Procedures

Inhalation: remove to fresh air. If breathing is difficult consult physician.

Eyes: flush with water for 15 minutes.

Skin: wash thoroughly with soap & water.

Internal: drink a quart of water. Do NOT induce vomiting. Take to hospital & advise emergency

Emergency and First Aid Procedures cont.
personnel to NOT administer adrenalin.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

For large quantities: evacuate area. Provide maximum ventilation, absorb spilled material

on absorbent solid & place in sealed drum for disposal.

Waste Disposal Method

In large quantities: sealed drums of contaminated absorbent solid must be disposed of in a permitted hazardous waste management facility. Do NOT flush spilled liquid to sewer.

Precautions to be Taken in Handling and Storing

Store in a cool, well-ventilated area.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

When using in a confined area, use NIOSH-MSHA approved organic vapor respirator.

Ventilation	Local Exhaust:	Special:
	Mechanical (General): sufficient to maintain work place concentration below permissible exposure limits.	

Protective Gloves: Polyethylene or neoprene	Eye Protection: Safety goggles
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Other Protective Clothing or Equipment

Work/Hygienic Practices

Do NOT take internally. Avoid prolonged breathing of vapors.