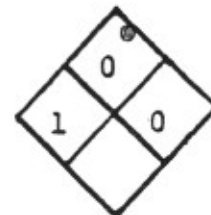


Material Safety Data Sheet

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)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List)
MIRACHEM 100 CLEANER/DEGREASER CONCENTRATE

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

Section I

Manufacturer's Name MIRACHEM CORPORATION	Emergency Telephone Number (602) 966-3030
Address (Number, Street, City, State, and ZIP Code) 2107 E. 5TH STREET	Telephone Number for Information (602) 966-3030
TEMPE, AZ 85281-3034	Date Prepared FEBRUARY 1988
	Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
THIS PRODUCT CONTAINS NO HAZARDOUS COMPONENTS. THIS PRODUCT IS AN AQUEOUS EMULSION OF DI WATER, DETERGENTS, EMULSIFIERS, STABILIZERS TO ADJUST pH, & C9 TO C12 HYDROCARBONS. THE SUGGESTED TLV FOR THE PRODUCT IS 1000 PPM. THE PRODUCT HAS BEEN COMPLETELY TESTED FOR SAFETY BIOLOGICALLY & HAS BEEN DOCUMENTED AS MEETING O.S.H.A. REQUIREMENTS FOR SAFETY. TEST REPORTS ARE AVAILABLE UPON REQUEST.				

NO INGREDIENTS IN PRODUCT ARE FOUND ON ANY LISTS OF HAZARDOUS, CARCINOGENIC, OR BANNED CHEMICAL AGENTS OR MATERIALS GENERATED BY THEM. AGENCIES SURVEYED INCLUDED THE NAT'L CANCER INSTITUTE, E.P.A., F.D.A., NAT'L SCIENCE FOUNDATION, O.S.H.A. (CA & FED), CONSUMER PRODUCT SAFETY COMMISSION, D.O.T., & NAT'L TOXICOLOGY PROGRAM.

THIS PRODUCT IS COMPLETELY BIODEGRADABLE WITH A VOC OF 129 GMS/LITER OR 1.07 LBS/GAL.

Section III — Physical/Chemical Characteristics

Boiling Point	212F	Specific Gravity (H₂O = 1)	.9865
Vapor Pressure (mm H₂)	<20	Melting Point	N/A
Vapor Density (AIR = 1)	.9	Evaporation Rate (Butyl Acetate = 1)	<1

Solubility in Water
COMPLETE EMULSIFICATION IN WATER

Appearance and Odor
CLEAR TO MILKY LIQUID -- MILD ODOR

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) PMCC -- NONE TO BOILING POINT	Flammable Limits NON-FLAMMABLE	LEL N/A	UEL N/A
Extinguishing Media NONE			
Special Fire Fighting Procedures NONE			

Unusual Fire and Explosion Hazards
NONE

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	XX	OXIDIZING AND REDUCING AGENTS
Incompatibility (Materials to Avoid)		STRONG ACIDS AND ALKALIES	
Hazardous Decomposition or Byproducts		THERMAL DECOMPOSITION MAY PRODUCE CO ₂	
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	XX	

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	NON-HAZARDOUS	NON-HAZARDOUS	NON-HAZARDOUS LD50 > 6 gms/kg
Health Hazards (Acute and Chronic)			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
NONE	N/A	N/A	N/A

Signs and Symptoms of Exposure
PRODUCT CONSIDERED SAFE

Medical Conditions
Generally Aggravated by Exposure NONE KNOWN

Emergency and First Aid Procedures
IF SPLASHED IN EYES FLUSH WITH WATER AND CONSULT PHYSICIAN

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
FLUSH WITH WATER INTO CONTAINING AREA

Waste Disposal Method
SEWERAGE WITH WATER FLUSH WHEN APPLICABLE WITHIN FEDERAL OR LOCAL WASTE DISPOSAL REQUIREMENTS

Precautions to Be Taken in Handling and Storing
USE WITH ADEQUATE VENTILATION. PROTECT FROM FREEZING

Other Precautions
KEEP OUT OF REACH OF CHILDREN

Section VIII — Control Measures

Respiratory Protection (Specify Type) NO SPECIAL REQUIREMENTS. IF PRODUCT IS SPRAYED OR VAPORIZED, A NIOSH CERTIFIED SELF-CONTAINED RESPIRATOR IS RECOMMENDED (BUT NOT REQUIRED)

Ventilation	Local Exhaust	NO SPECIAL REQUIREMENTS -- RECOMMEND ADEQUATE VENTILATION	Special	NONE
	Mechanical (General)	NONE	Other	NONE
Protective Gloves	NO SPECIAL REQUIREMENT. RUBBER GLOVES ARE RECOMMENDED (BUT NOT REQUIRED)		Eye Protection	ANTI-SPLASH GOGGLES ARE RECOMMENDED
Other Protective Clothing or Equipment		NON REQUIRED		

Work/Hygienic Practices ALTHOUGH NOT REQUIRED, WE RECOMMEND AS GOOD HYGIENIC PRACTICE THE USE OF PREVENTIVE MEASURES -- SUCH AS GLOVES, GOGGLES, ETC.