

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)
 MDR FORMULA B Mineral Deposit Remover

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 TITAN LABORATORIES, INC.	Emergency Telephone Number 1-415-965-9900	24 Hour Emergency or 1-800-255-3924
Address (Number, Street, City, State, and ZIP Code) 2235 MORRIS DR. MOUNTAIN VIEW, CA 94040	Telephone Number for Information Phone 1-415-965-9900	FAX 1,415,964,4400
	Date Prepared 10/03/95 v.1.1	

Section II — Hazardous Ingredients/Identify Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (approx)
Phosphoric acid (corrosive) CAS 7664-38-2	None	None		Under 4%

CERCLA or SARA Title III leak or spill reporting is not required.

Section III — Physical/Chemical Characteristics

Boiling Point 212°F	Specific Gravity (H₂O = 1) 1.155
Vapor Pressure (mm Hg.) less than 20mm Hg	Melting Point not applicable
Vapor Density (AIR = 1) not applicable	Evaporation Rate (Butyl Acetate = 1) greater than 1
Solubility in Water disperses	pH = 2.0
Appearance and Odor Opaque slurry, pleasant odor	

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) None	Flammable Limits	LEL	UEL
Extinguishing Media None required			
Special Fire Fighting Procedures None required			
Unusual Fire and Explosion Hazards None			

MDR Formula B

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	XX	

Incompatibility (Materials to Avoid) Strong alkalies

Hazardous Decomposition or Byproducts
None

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	XX	

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Not Normally	No	Yes

Health Hazards (Acute and Chronic)

Eye irritant. Will cause severe eye irritation. Contact with open skin areas may cause irritation. Respirable dust from dried product is minimal, but inhalation of any dried product should be avoided.

Carcinogenicity:	NTPY	IARC Monographs?	OSHA Regulated?
	No	Finished Product, No	No

Signs and Symptoms of Exposure

Eye irritation upon contact with product. Irritation of open skin areas. Ingestion will cause diarrhea, severe if ingested in quantity.

Medical Conditions

Generally Aggravated by Exposure Possibly pre-existing skin or respiratory disorders.

Emergency and First Aid Procedures

EYE CONTACT. Rinse with clear water for 10 minutes while alternately holding upper and lower eyelids open. Remove contact lenses, if worn. See a physician.

IF SWALLOWED. Rinse mouth. Drink lots of water or milk, do not induce vomiting. See a physician.

Section VII — Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Pick up excess with dustpan or wet/dry vacuum and place in a plastic container for disposal. Wash residue to sewer with lots of water.

Waste Disposal Method

Sewer, landfill, or allow to dry and dispose as solid waste. Product is nontoxic and biodegradable.

Precautions to be Taken in Handling and Storage

Store in closed containers at 40°F to 110°F.

Other Precautions

Do not allow product residues to dry out during use. Keep out of reach of children.

Section VIII — Control Measures

Respiratory Protection (Specify Type)

Dust mask to prevent respiration of dried residue, depending on job conditions.

Ventilation	Local Exhaust	May be required	Special
	Mechanical (General)	No	Other

Protective Gloves

Plastic or rubber required.

Eye Protection

Glasses, goggles or face shield required.

Other Protective Clothing or Equipment

Eye wash fountain, sink, safety shower.

Work/Hygiene Practices

Normal hygienic practices are adequate.

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Section I

Manufacturer's Name TITAN LABORATORIES, INC.	Emergency Telephone Number 408 734-2200	24 Hour Emergency or 1-800-255-3924
Address (Number, Street, City, State, and ZIP Code) 1240 Mtn. View-Alviso Rd. Sunnyvale, CA 94089	Telephone Number for Information Phone 408 734-2200	FAX 408.745.1100
	Date Prepared 08/12/94 V1.0	

Section II -- Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Phosphoric acid (corrosive) CAS7664-38-2	None	None		Under 4%
CERCLA or SARA Title III loss or spill reporting is not required.				

Section III -- Physical/Chemical Characteristics

Boiling Point 212 °F	Specific Gravity (H₂O = 1) 1.155
Vapor Pressure (mm Hg) less than 20mm Hg	Melting Point not applicable
Vapor Density (AIR = 1) not applicable	Evaporation Rate (Butyl Acetate = 1) greater than 1
Solubility in Water disperses	pH - 2.0
Appearance and Odor Opaque slurry, pleasant odor	

Section IV -- Fire and Explosion Hazard Data

Flash Point (Method Used) None	Flammable Limits	LEL	UEL
Extinguishing Media None required			
Special Fire Fighting Procedures None required			
Unusual Fire and Explosion Hazards None			

(Reproduce locally)

OSHA 174 REV 2

MDR Formula B

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	XX	

Incompatibility (Materials to Avoid) Strong alkalis

Hazardous Decomposition or Byproducts None

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	XX	

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	<u>Not Normally</u>	<u>No</u>	<u>Yes</u>

Health Hazards (Acute and Chronic)

Eye irritant. Will cause severe eye irritation. Contact with open skin areas may cause irritation. Respirable dust from dried product is minimal, but inhalation of any dried product should be avoided.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	<u>No</u>	<u>Finished Product, No</u>	<u>No</u>

Signs and Symptoms of Exposure

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Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

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Waste Disposal Method

Sewer, landfill, or allow to dry and dispose as solid waste. Product is nontoxic and biodegradable.

Precautions to Be Taken in Handling and Storing

Store in closed containers at 40^oF to 110^oF.

Other Precautions

Do not allow product residues to dry out during use. Keep out of reach of children.

Section VIII — Control Measures

Respiratory Protection (Specify Type)

Dust mask to prevent respiration of dried residue, depending on job conditions.

Ventilation	Local Exhaust	May be required	Special
	Mechanical (General)	No	Other

Protective Gloves Plastic or rubber required. Eye Protection Glasses, goggles or face shield required.

Other Protective Clothing or Equipment

Eye wash fountain, sink, safety shower.

Work/Hygienic Practices

Normal hygienic practices are adequate