FILE NAME: Talc (TALC)

DATE: 1978-1983

DOC#: TALC128

DOCUMENT DESCRIPTION: Material Safety Data Sheets

RECEIVED
FEB 10 '97
EASTON, PA.

MATERIAL SAFETY DATA SHEET - FORM 10

This form applies to the following Talcs:

All from Montana-Barretts

MP 10-52 Microtalc
MP 12-50 Microtalc
MP 15-38 Microtalc
MP 25-38 Microtalc
MP 40-27 Talcron
MP 44-26 Talcron
MP 45-26 Talcron
MP 45-29 Talcron
MP 50-35 Talcron
MP 97-30 Cercron
MP 96-28 Cercron (BX 107)
MP 98-25 Cercron
MP 99-24 Cercron (BX108)
MP 99-54 Cercron (Calcined)
MP 12-52 Microtalc
MP 10-00 Talc Ore
MP 12-48 Microtalc (USP)
MP 15-35 Microtalc
MP 16-40 Microtalc
MP 20-40 Microtalc
MP 25-35 Microtalc
MP 50-26 Talcron
MP 50-30 Talcron (USP)
MP 50-45 Talcron
MP 70-22 Talcron
MP 98-29 Cercron
MP 99-10 Talcron (BX 100)
MP 99-22 Cercron (BX 110)
BX 106
BX 109
BX 112
BX 114

NOTE: The above talcs are all free of asbestos or other fibrous asbestiform minerals.

This form also applies to the following California talcs:

CP-10-40 Microtalc
CP-14-35 Microtalc
CP-14-36 Microtalc
CP-20-30 Microtalc
CP-38-33 Microtalc
CP-44-31 Microtalc

Pfizer MINERALS, PIGMENTS & METALS DIVISION
PFIZER INC., 235 E. 42ND ST. NEW YORK, N. Y. 10017

MATERIAL SAFETY DATA SHEET

NPVLA 6-70

(Approved by U.S. Department of Labor "Essentially Similar" to Form LSB-00S-4)

Form 10

Section I

MANUFACTURER'S NAME: PFIZER INC. MINERALS, PIGMENTS & METALS DIV.

STREET ADDRESS: ~~235 E. 42nd STREET~~

CITY STATE AND ZIP CODE: NEW YORK, N. Y. 10017

EMERGENCY TELEPHONE NO: (212) 573-2816

CHEMICAL NAME AND SYNONYMS	TRADE NAME
Magnesium silicate hydrate - talc	none
CHEMICAL FAMILY: alkaline metal silicate	FORMULA: $Mg_3Si_4O_{10}(OH)_2$

Section II — HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS

PIGMENTS	%	TLV (Units)	SOLVENTS	%	TLV (Units)
CATALYST			ADDITIVES		
VEHICLE			OTHERS		

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES — %

Section II does not apply

Section III — PHYSICAL DATA

BOILING POINT (°F)	N.A.	SPECIFIC GRAVITY ($H_2O=1$) true	2.5-2.8
VAPOR PRESSURE (mm Hg)	N.A.	PERCENT VOLATILE BY VOLUME (%)	N.A.
VAPOR DENSITY (AIR=1)	N.A.	EVAPORATION RATE (=1)	N.A.
SOLUBILITY IN WATER	negligible		
APPEARANCE AND ODOR	white powder -	no odor	

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	N.A.	FLAMMABLE LIMITS	N.A.	LEL	UEL

EXTINGUISHING MEDIA: water

SPECIAL FIRE FIGHTING PROCEDURES: none

UNUSUAL FIRE AND EXPLOSION HAZARDS: none

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PFZ01162_017341

PFE LIN _00009

Section V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
20 mppcf (for non-asbestiform Talc) American Conference of Governmental IndustrialHygienists

EFFECTS OF OVEREXPOSURE
Irritation in respiratory tract. Prolonged exposure may lead to pulmona involvement.

EMERGENCY AND FIRST AID PROCEDURES
Wash dust from skin with water. Flush out eyes with water and see a physician.

Section VI – REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

Section VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Normal clean up

WASTE DISPOSAL METHOD
Can be reclaimed for use or removed to dump.

Section VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type): Protective (filter) mask.

VENTILATION	LOCAL EXHAUST: None		SPECIAL
	MECHANICAL (General): adequate ventilation to keep dust below TLV		OTHER: Vent dust to collector
PROTECTIVE GLOVES: None		EYE PROTECTION: tight fitting goggles	

OTHER PROTECTIVE EQUIPMENT: None

Section IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
None

OTHER PRECAUTIONS
None

117 05164

MINERALS, PIGMENTS & METALS DIVISION
PFIZER INC., 235 E. 42ND ST. NEW YORK, N. Y. 10017

August 15, 1980

MATERIAL SAFETY DATA SHEET - FORM 10

This form applies to the following non-fibrous talcs:

Montana

MP 01-12
MP 10-32 Microtalc
MP 12-50 Microtalc
MP 15-38 Microtalc
MP 25-38 Microtalc
MP 30-36 Microtalc
MP 40-27 Talcron
MP 44-28 (USP)
MP 44-26 Talcron
MP 45-26 Talcron
MP 45-43 Talcron
MP 45-29 Talcron
MP 50-35 Talcron
MP 95-28 Cercron
MP 97-30 Cercron
MP 96-28 Cercron (BX 107)
MP 98-25 Cercron
MP 99-24 Cercron (BX 108)
MP 99-54 Cercron (Calcined)
MP 12-52 Microtalc
MP 10-00 Talc Ore
MP 12-48 Microtalc (USP)
MP 15-35 Microtalc
MP 16-40 Microtalc
MP 20-40 Microtalc
MP 25-35 Microtalc
MP 50-26 Talcron
MP 50-30 Talcron (USP)
MP 50-45 Talcron
MP 70-22 Talcron
MP 98-29 Cercron
MP 99-10 Talcron (BX 100)
MP 99-22 Cercron (BX 110)
BX 106
BX 109
BX 112
BX 114
BX 117
BX 126 (USP)
BX 128
BX 142

California

CP 10-40 Microtalc
CP 44-31 Microtalc
CP 15-34 Microtalc
CP 38-33 Microtalc
CP 14-36 Microtalc
CP 46-27 Microtalc
CP 14-35 Microtalc
CP 20-30 Microtalc

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Pfizer
MINERALS
PIGMENTS
& METALS
DIVISION

MATERIAL SAFETY DATA SHEET

MONTANA TALC

CALIFORNIA TALC (NON-FIBROUS) FORM 10

SECTION I

MANUFACTURER'S NAME: Pfizer Inc.	EMERGENCY TEL. No.: (212) 573-2816
ADDRESS: 235 East 42nd Street, New York, NY 10017	
CHEMICAL NAME AND SYNONYMS: Magnesium Silicate Hydrate	TRADE NAME AND SYNONYMS: Talc
CHEMICAL FAMILY: Alkaline Metal Silicate	FORMULA: $3MgO \cdot 4SiO_2 \cdot H_2O$
C.A.S. No: 14801-96-6	

SECTION II – HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
NOT APPLICABLE		

SECTION III – PHYSICAL DATA

BOILING POINT (°F)	N/A	SPECIFIC GRAVITY (H_2O=1)	2.5-2.8
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR	White powder - no odor		

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
NON - FLAMMABLE			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

MPM 6A1026-1-978 OSHA FORM 20

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SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 20 mppcf (OSHA) 10mg/M^3 (MSHA) 6mg/M^3 (ACGIH)

EFFECTS OF OVEREXPOSURE: Irritation to respiratory tract.

EMERGENCY AND FIRST AID PROCEDURES: Wash skin with soap and water. Flush eyes with water.

SECTION VI – REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Normal cleanup procedures. Care should be taken to avoid causing dust to become airborne. Vacuum cleaning systems are recommended. Do not flush to sewer.

WASTE DISPOSAL METHOD: Disposal must be made in accordance with federal, state and local regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type): Use of dust respirator is recommended when exposure limits may be exceeded.

VENTILATION: Local exhaust ventilation to collector or containment recommended to control dust to below exposure limits.

PROTECTIVE GLOVES: Leather or rubber gloves.

EYE PROTECTION: Dust tight goggles in dusty environment.

OTHER PROTECTIVE EQUIPMENT: None

SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS: Good industrial hygiene practice requires that employee exposure be maintained below the recommended TLV. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed.

Prepared by: M. G. Larson, Manager, Safety & Environmental Health - November 12, 1979

Legal responsibility is assumed only for the fact that all studies reported here and all opinions are those of qualified experts.

MINERALS, PIGMENTS & METALS DIVISION
PFIZER INC., 235 E. 42ND ST. NEW YORK, N. Y. 10017

November 11, 1980

MATERIAL SAFETY DATA SHEET - FORM 10A

This forms applies to the following non-fibrous California talcs:

CP10-40 Microtalc
CP44-31 Microtalc
CP15-34 Microtalc
CP38-33 Microtalc
CP14-36 Microtalc
CP46-27 Microtalc
CP14-35 Microtalc
CP20-30 Microtalc
CP96-30 Cercron
CP97-27 Cercron
CP75-20 Talcron
CP2000 Crude Talc

Pfizer
MINERALS
PIGMENTS
& METALS
DIVISION

November 11, 1980

MATERIAL SAFETY DATA SHEET

CALIFORNIA TALC (NON-FIBROUS) FORM 10A

SECTION I

MANUFACTURER'S NAME: Pfizer Inc.	EMERGENCY TEL. No.: (212) 573-2816
ADDRESS: 235 East 42nd Street, New York, NY 10017	
CHEMICAL NAME AND SYNONYMS: Magnesium Silicate Hydrate	TRADE NAME AND SYNONYMS: Talc
CHEMICAL FAMILY: Alkaline Metal Silicate	FORMULA: $3MgO \cdot 4SiO_2 \cdot H_2O$
C.A.S. No.: 14801-96-6	

SECTION II – HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
California CP talcs normally contain between 1% and 5% total tremolite with a fiber count of less than 0.1% (the practical detection limit of the analytical method).		

SECTION III – PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H_2O=1)	2.5-2.8
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR	White powder – no odor		

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
NON-FLAMMABLE			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 20 mppcf (OSHA) 10mg/M^3 (MSHA) 6mg/M^3 (ACGIH)

EFFECTS OF OVEREXPOSURE: Irritation to respiratory tract.

EMERGENCY AND FIRST AID PROCEDURES: Wash skin with soap and water. Flush eyes with water.

SECTION VI – REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Normal cleanup procedures. Care should be taken to avoid causing dust to become airborne. Vacuum cleaning systems are recommended. Do not flush to sewer.

WASTE DISPOSAL METHOD: Disposal must be made in accordance with federal, state and local regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type): Use of dust respirator is recommended when exposure limits may be exceeded.

VENTILATION: Local exhaust ventilation to collector or containment recommended to control dust to below exposure limits.

PROTECTIVE GLOVES: Leather or rubber gloves.

EYE PROTECTION: Dust tight goggles in dusty environment.

OTHER PROTECTIVE EQUIPMENT: None

SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS: Good industrial hygiene practice requires that employee exposure be maintained below the recommended TLV. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed.

Prepared by: M. G. Larson, Manager, Safety & Environmental Health – November 11, 1980

Legal responsibility is assumed only for the fact that all studies reported here and all opinions are those of qualified experts.

D. G. Brant

MINERALS, PIGMENTS & METALS DIVISION
2800 AYERS AVENUE, LOS ANGELES, CALIFORNIA 90023

213 269-8331

RECEIVED
JUN 6 1983
PFIZER INC.
EASTON, PA.

June 2, 1983

Ms. Jean M. Golestaneh
Industrail Hygenist
Department of Industrial Relations
Division of Occupational Safety & Health
2833 Leonis Blvd.
Vernon, California 90058

Dear Ms. Golestaneh:

Here is the information you requested about Pfizer California Ceramic Talc used by Holiday Ceramics.

You said you would send Dave Brant samples of the bulk talc and airbourne filters for material taken from Holiday Ceramics plus laboratory data indicating why you felt the talc contains asbestos. His address is:

Pfizer Inc.
640 North 13th Street
Easton, Pa. 18042.

Sincerely yours,

D. J. Brinkman
Regional Sales Manager

DJB/bh

cc: File

attachments

bcc: D.G.Hansen
D.G.Brant
Dick Block-Holiday Ceramics, Inc.
3401 E. Pico Blvd.
Los Angeles, Ca. 90023

MINERALS, PIGMENTS & METALS DIVISION
PFIZER INC., 235 E. 42ND ST. NEW YORK, N.Y. 10017

June 30, 1981

MATERIAL SAFETY DATA SHEET - FORM 10A

This form applies to the following non-fibrous California talcs:

CP10-40 Microtalc
CP44-31 Talcron
CP15-34 Microtalc
CP38-33 Talcron
CP14-36 Microtalc (Paper Grade)
CP46-27 Talcron
CP14-35 Microtalc
CP20-30 Microtalc
CP96-30 Cercron
CP97-27 Cercron
CP75-20 Talcron
CP2000 Crude Bulk
CP99-29 Cercron

MINERALS
PIGMENTS
& METALS
DIVISION

November 11, 1980

MATERIAL SAFETY DATA SHEET

CALIFORNIA TALC (NON-FIBROUS) FORM 10A

SECTION I

MANUFACTURER'S NAME: Pfizer Inc.	EMERGENCY TEL. No.: (212) 573-2816
ADDRESS: 235 East 42nd Street, New York, NY 10017	
CHEMICAL NAME AND SYNONYMS: Magnesium Silicate Hydrate	TRADE NAME AND SYNONYMS: Microtalc, Talcron, Cercron
CHEMICAL FAMILY: Alkaline Metal Silicate	FORMULA: $3MgO \cdot 4SiO_2 \cdot H_2O$
C.A.S. No.: 14801-96-6	

SECTION II – HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
California CP talcs normally contain between 1% and 5% total tremolite with a fiber count of less than 0.1% (the practical detection limit of the analytical method).		

SECTION III – PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H_2O=1)	2.5-2.8
VAPOR PRESSURE (mm Hg)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR	White powder - no odor		

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS: NOT FLAMMABLE			

PFZ01162_012221

PFE LIN _00019

SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 20 mppcf (OSHA) 10mg/M^3 (NSHA) 6mg/M^3 (ACGIH) 2 fibers/cc air (greater than 5 micrometers length

EFFECTS OF OVEREXPOSURE: Irritation to respiratory tract.

EMERGENCY AND FIRST AID PROCEDURES: Wash skin with soap and water. Flush eyes with water. 10 fibers/cc air (ceiling)

SECTION VI – REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Normal cleanup procedures. Care should be taken to avoid causing dust to become airborne. Vacuum cleaning systems are recommended. Do not flush to sewer.

WASTE DISPOSAL METHOD: Disposal must be made in accordance with federal, state and local regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type): Use of dust respirator is recommended when exposure limits may be exceeded.

VENTILATION: Local exhaust ventilation to collector or containment recommended to control dust to below exposure limits.

PROTECTIVE GLOVES: Leather or rubber gloves.

EYE PROTECTION: Dust tight goggles in dusty environment.

OTHER PROTECTIVE EQUIPMENT: None

SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS: Good industrial hygiene practice requires that employee exposure be maintained below the recommended TLV. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed.

Prepared by: M. G. Larson, Manager, Safety & Environmental Health – November 11, 1980

Legal responsibility is assumed only for the fact that all studies reported here and all opinions are those of qualified experts.

Pfizer MINERALS, PIGMENTS & METALS DIVISION
235 EAST 42nd STREET, NEW YORK, N.Y. 10017

Pfizer TECHNICAL DATA

TR-283-6 ©PFIZER 1978

CERCRON CP 96-30

CERCRON CP 96-30

Cercon CP 96-30 is a ceramic grade talc produced from a blend of high quality talc ores from Pfizer's talc deposits in Southern California. California talc is widely used as a major ingredient in artware pottery formulations. Its white fired color and uniform firing properties make it ideal for use by the artware manufacturer and ceramic hobbist.

All users of industrial minerals should be aware of the concerns of OSHA (Occupational Safety & Health Administration) about employee exposure to airborne dust. Since Pfizer has no control over the conditions of use of its talc products, it is impossible to indicate the airborne fiber concentrations which could possibly result from the use of Pfizer talc. However, Pfizer can provide information on the asbestiform mineral content of Pfizer talc products. California CP talcs normally contain between 1% and 5% total tremolite with a fiber count of less than 0.1% (the practical detection limit of the analytical method).

CHEMICAL COMPOSITION - (typical)

Silicon Dioxide	SiO_2	51.2%
Magnesium Oxide	MgO	25.8%
Calcium Oxide	CaO	7.8%
Aluminum Oxide	Al_2O_3	0.7%
Ferric Oxide	Fe_2O_3	0.2%
Titanium Dioxide	TiO_2	0.03%
Potassium as K_2O		0.5%
Sodium as Na_2O		0.7%
Loss on Ignition	L.O.I.	10.9%
Acid Soluble as CaO		8.2%

PHYSICAL PROPERTIES - (typical)

Specific Gravity	2.8
Apparent Density- lb/ft³	30
g/cc	.48
Tapped Density- lb/ft³	50
g/cc	.80
Retention on 200 Mesh	3.0%
Retention on 325 Mesh	17.0%
Particle Shape	Platy
Dry Brightness	88
pH Value	9.2

All information given and recommendations [illegible] Pfizer Inc is not to be construed [illegible]

Pfizer MINERALS, PIGMENTS & METALS DIVISION
PFIZER INC., 235 E. 42ND ST. NEW YORK, N. Y. 10017

June 30, 1981

MATERIAL SAFETY DATA SHEET - FORM 10A

This form applies to the following non-fibrous California talcs:

CP10-40 Microtalc
CP44-31 Talcron
CP15-34 Microtalc
CP38-33 Talcron
CP14-36 Microtalc (Paper Grade)
CP46-27 Talcron
CP14-35 Microtalc
CP20-30 Microtalc
CP96-30 Cercron
CP97-27 Cercron
CP75-20 Talcron
CP2000 Crude Bulk
CP99-29 Cercron

RECEIVED
JUN 9 1983
Pfizer
EASTON

Pfizer
MINERALS
PIGMENTS
& METALS
DIVISION

November 11, 1980

MATERIAL SAFETY DATA SHEET

CALIFORNIA TALC (NON-FIBROUS) FORM 10A

SECTION I

MANUFACTURER'S NAME: Pfizer Inc.	EMERGENCY TEL. No.: (212) 573-2816
ADDRESS: 235 East 42nd Street, New York, NY 10017	
CHEMICAL NAME AND SYNONYMS: Magnesium Silicate Hydrate	TRADE NAME AND SYNONYMS: Microtalc, Talcron, Cercron
CHEMICAL FAMILY: Alkaline Metal Silicate	FORMULA: $3MgO \cdot 4SiO_2 \cdot H_2O$
C.A.S. No.: 14801-96-6	

SECTION II – HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
California CP talcs normally contain between 1% and 5% total tremolite		
with a fiber count of less than 0.1% (the practical detection limit		
of the analytical method).		

SECTION III – PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H_2O=1)	2.5-2.8
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR	White powder - no odor		

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS: NON-FLAMMABLE			

MPM 6A029-1-875 OSHA FORM 20

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PFE LIN 00023

SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
20 mppcf (OSHA) 10mg/M^3 (MSHA) 6mg/M^3 (ACGIH) ? fibers/cc air (greater than 5 micrometers length) 10 fibers/cc air (ceiling)

EFFECTS OF OVEREXPOSURE
Irritation to respiratory tract.

EMERGENCY AND FIRST AID PROCEDURES
Wash skin with soap and water. Flush eyes with water.

SECTION VI – REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (Materials to avoid) None

HAZARDOUS DECOMPOSITION PRODUCTS None

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Normal cleanup procedures. Care should be taken to avoid causing dust to become airborne. Vacuum cleaning systems are recommended. Do not flush to sewer.

WASTE DISPOSAL METHOD
Disposal must be made in accordance with federal, state and local regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
Use of dust respirator is recommended when exposure limits may be exceeded.

VENTILATION
Local exhaust ventilation to collector or containment recommended to control dust to below exposure limits.

PROTECTIVE GLOVES
Leather or rubber gloves.

EYE PROTECTION
Dust tight goggles in dusty environment.

OTHER PROTECTIVE EQUIPMENT
None

SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS
Good industrial hygiene practice requires that employee exposure be maintained below the recommended TLV. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed.

Prepared by: M. G. Larson, Manager, Safety & Environmental Health - November 11, 1980

Legal responsibility is assumed only for the fact that all studies reported here and all opinions are those of qualified experts.

redacted

FORM: 10A

PAGE: 1

MATERIAL SAFETY DATA SHEET

CALIFORNIA TALC

SECTION I - IDENTIFICATION

Manufacturer's Name	- Pfizer, Inc.
Address	- 235 E. 42nd St. New York, N. Y. 10017
Emergency Telephone Number	- (212) 573-7217
Chemical Name	- Magnesium Silicate Hydrate
Trade Name	- Microtalc, Talcron, Cerutun
Chemical Family	- Alkaline Metal Silicate
Chemical Formula	- $3\ MgO \cdot 4SiO_2 H_2O$
C. A. S. Number	- 14807-96-6

SECTION II - HAZARDOUS INGREDIENTS

California CP talcs normally contain between 1-15% total tremolite. Fibrous tremolite (asbestos) may be present in quantities of 0.1-9% by weight. Asbestos is carcinogenic or co-carcinogenic for humans. The current OSHA standard, 8 hour TWA is 2 fibers/cc (fibers with at least a 3:1 aspect ratio greater than 5 micrometers in length). Ceiling - 10 fibers/cc. Action level - 0.1 fibers/cc.

California Talc also contains free silica. The current OSHA standard, 8 hour TWA (Respirable Dust) is determined by the formula 10 $mg/M^3 / \%SiO_2 + 2$ or 50 mppcf/% SiO_2+5. ACGIH 8 hour TWA is 3 mppcf or 0.1 mg/M^3 for respirable dust. NOISH proposed 10 hour TWA of 0.05 mg/M^3 PEL.

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CALIFORNIA TALC

SECTION III - PHYSICAL DATA

Boiling Point (°F)	- N/A
Vapor Pressure (mmHg)	- N/A
Vapor Density (Air=1)	- N/A
Solubility in Water	- Insoluble
Specific Gravity (H_2O=1)	- 2.5 - 2.8
Percent Volatile by Volume (%)	- N/A
Evaporation Rate (_____ = 1)	- N/A
Appearance and Odor	- White Powder, No Odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) - This material is non-combustible

Auto - Ignition Temperature - N/A

Flammable Limits in Air (% by Volume) - Lower - N/A
Upper - N/A

Extinguishing Media - Use extinguishing media appropriate to the surrounding fire.

Special Fire Fighting Procedures - None

Unusual Fire and Explosion Hazards - None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value - SILICA - 10 mg/M^3/%SiO_2+2 or 50 mppcf/%SiO_2+5
- ASBESTOS - 2 fibers/cc
Ceiling 10 fibers/cc
Action Level 0.1 fibers/cc (fibers with 3:1 aspect ratio greater than 5 micrometers length)

Effects of Overexposure - Short term overexposure to silica can produce cough, wheezing, and dyspnea. Long-term overexposure to silica dust causes silicosis, a form of pulmonary fibrosis. Continued exposure to silica dust can lead to cardiopulmonary impairment.

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CALIFORNIA TALC

- Chronic inhalation of high levels of fibrous tremolite particles can produce asbestosis, a disabling fibrosis of the lungs which gradually reduces lung capacity and efficiency. Excessive inhalation can also cause pleural plaque, a thickening of the lungs lining. Compliance with the TLV is expected to control these hazards.

Emergency and First Aid Procedures

- Eye Exposure: If talc gets into your eyes, wash them immediately with large amounts of water, lifting the lower and upper lids occasionally. Wash for at least 15 minutes. Get medical attention if irritation continues. Contact lenses should not be worn when working with this material.

- Skin Exposure: Wash with soap and water.

- Breathing: If you or any other person breathes in large amounts of talc, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible. The person should be observed by a physician for a day or more after exposure since delayed lung congestion may develop.

SECTION VI - REACTIVITY DATA

Stability	- Stable
Conditions to avoid	- None
Incompatibility (Materials to avoid)	- None
Hazardous Decomposition Products	- None
Hazardous Polymerization	- Will not occur
Conditions to avoid	- None

SECTION VII - SPILL, LEAK AND DISPOSAL PROCEDURES

Steps to be taken if material is released or spilled - Notify Safety Personnel of major spills. Provide ventilation. Clean-up personnel need protection against eye contact and inhalation of dust. Pick-up spills taking care to avoid raising dust clouds (use vacuum or wet sweeping). Place in closed container for disposal.

redacted

Waste Disposal Method - Use waste containers suitable for transportation and dispose in approved landfill. Follow Federal, State and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type)	- Approved dust mask or respirator should be worn when exposed to silica-containing dust or tremolite fibers.
Ventilation	- Provide adequate general and local exhaust ventilation to meet TLV requirements.
Protective Gloves	- Leather or rubber
Eye Protection	- Dust-tight goggles in dusty environment.
Other Protective Equipment	- Depending on exposure levels, it may be necessary to provide body covering work clothes, special vacuuming facilities for clothes and suitable laundering or disposal arrangements, change areas with clean side/dirty side locker facilities, shower before changing to street clothes after work. Be sure asbestos dust is not carried home on shoes or clothing.

SECTION IX - SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

Precautions - Using a respirator and protective clothing, secure spills and leaks at the source as soon as possible. Observe all precautions for safe handling which are discussed above.

PREPARED BY: M. G. Larson, Manager of Safety and Environmental Health

DATE: July 18, 1983

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, we make no warranty with respect thereto and disclaim all liability from reliance thereon.

MINERALS, PIGMENTS & METALS DIVISION
PFIZER INC., 235 E. 42ND ST. NEW YORK, N. Y. 10017

September 22, 1983

MATERIAL SAFETY DATA SHEET - FORM 10A

This form applies to the following California talcs:

CP10-40 Microtalc
CP44-31 Talcron
CP15-34 Microtalc
CP38-33 Talcron
CP14-36 Microtalc (Paper Grade)
CP46-27 Talcron
CP14-35 Microtalc
CP20-30 Microtalc
CP96-30 Cercron
CP97-27 Cercron
CP75-20 Talcron
CP2000 Crude Bulk
CP99-29 Cercron

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MATERIAL SAFETY DATA SHEET

CALIFORNIA TALC

SECTION I - IDENTIFICATION

Manufacturer's Name	- Pfizer, Inc.
Address	- 235 E. 42nd St. New York, N. Y. 10017
Emergency Telephone Number	- (212) 573-7217
Chemical Name	- Magnesium Silicate Hydrate
Trade Name	- Microtalc CP, Talcron CP, Cercron CP
Chemical Family	- Alkaline Metal Silicate
Chemical Formula	- $3\ MgO \cdot 4SiO_2 H_2O$
C. A. S. Number	- 14801-96-6

SECTION II - HAZARDOUS INGREDIENTS

California CP talcs normally contain between 1-15% total tremolite. Fibrous tremolite (asbestos) may be present in quantities of 0.1-2% or more by weight. Asbestos is carcinogenic or co-carcinogenic for humans. The current OSHA standard, 8 hour TWA is 2 fibers/cc (fibers with at least a 3:1 aspect ratio greater than 5 micrometers in length). Ceiling - 10 fibers/cc. Action level - 0.1 fibers/cc.

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- Chronic inhalation of high levels of fibrous tremolite particles can produce asbestosis, a disabling fibrosis of the lungs which gradually reduces lung capacity and efficiency. Excessive inhalation can also cause pleural plaque, a thickening of the lungs lining.

- Cancer can result from excessive inhalation of asbestos particulates, which may require decades to develop. Lung cancer is a special risk to those who smoke cigarettes regularly in addition to having asbestos exposure. Rare mesotheliomas of the pleura and peritoneum (lining around the lungs or abdominal cavity) and possibly cancers of the GI tract and larynx (also smoking related) have been associated with inhalation exposure to asbestos particles.

- In groups of workers exposed to asbestos, lung cancer death is 3 or 4 times more common than mesothelioma death, and 97.5% of asbestos - related lung cancers occur with those workers who also smoke cigarettes! for non-smokers, asbestos exposure increases risk of lung cancer five times.

Emergency and First Aid Procedures

- **Eye Exposure:** If talc gets into your eyes, wash them immediately with large amounts of water, lifting the lower and upper lids occasionally. Wash for at least 15 minutes. Get medical attention if irritation continues. Contact lenses should not be worn when working with this material.

- **Skin Exposure:** Wash with soap and water.

- **Breathing:** If you or any other person breathes in large amounts of talc, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible. The person should be observed by a physician for a day or more after exposure since delayed lung congestion may develop.

CALIFORNIA TALC

SECTION VI - REACTIVITY DATA

Stability	- Stable
Conditions to avoid	- None
Incompatibility (Materials to avoid)	- None
Hazardous Decomposition Products	- None
Hazardous Polymerization	- Will not occur
Conditions to avoid	- None

SECTION VII - SPILL, LEAK AND DISPOSAL PROCEDURES

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Waste Disposal Method - Use waste containers suitable for transportation and dispose in approved landfill. Follow Federal, State and local regulations.

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Protective Gloves	- Leather or rubber
Eye Protection	- Dust-tight goggles in dusty environment.
Other Protective Equipment	- Depending on exposure levels, it may be necessary to provide body covering work clothes, special vacuuming facilities for clothes and suitable laundering or disposal arrangements, change areas with clean side/dirty side locker facilities, shower before changing to street clothes after work. Be sure talc dust is not carried home on shoes or clothing.

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SECTION IX - SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

Precautions - Using a respirator and protective clothing, secure spills and leaks at the source as soon as possible. Observe all precautions for safe handling which are discussed above.

PREPARED BY: M. G. Larson, Manager of Safety and Environmental Health

DATE: September 22, 1983

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Pfizer MINERALS, PIGMENTS & METALS DIVISION
235 EAST 42nd STREET, NEW YORK, N.Y. 10017

TECHNICAL
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CALIFORNIA CP TALCS

CALIFORNIA CP TALCS

CP talcs are manufactured by Pfizer Incorporated, using selected and carefully controlled high quality talc ores from Pfizer's talc deposits located in southern California. These high brightness talcs are essentially platy in grain shape. The seven CP talc products listed below are identified by a code number which permits rapid identification of important product characteristics. The letters CP indicate California Platy. The first two digits in the code number indicate the approximate top size in microns. The last two digits indicate the approximate oil absorption.

Pfizer CP talcs are used in a wide variety of end uses including paint, paper, plastics, and ceramics.

All users of industrial minerals should be aware of the concerns of OSHA (Occupational Safety and Health Administration) about employee exposure to airborne dust. Since Pfizer has no control over the conditions of use of its talc products, it is impossible to indicate the airborne fiber concentrations which result from the use of Pfizer talc. However, Pfizer can provide information on the asbestiform mineral content of talc products. California CP talcs normally contain between 1 per cent and 6 per cent total tremolite with a fiber content of less than 0.1 per cent by weight. (The practical detection limit of the analytical method.) Using the most sensitive testing methods available, Pfizer scientists have not detected fibrous asbestiform minerals in California CP Talc at or above the detection levels stated above. This test method, based on selected area electron diffraction, x-ray diffraction and transmission electron microscopy, permits identification of chrysotile asbestos at levels of 0.5 per cent and fibrous amphiboles, such as tremolite, at levels as low as 0.1 per cent in talc. No other identification method in use today, including optical microscopy and scanning electron microscopy, are as sensitive. Details covering this method are available in a paper published by Pfizer and copies are available from your Pfizer Representative.

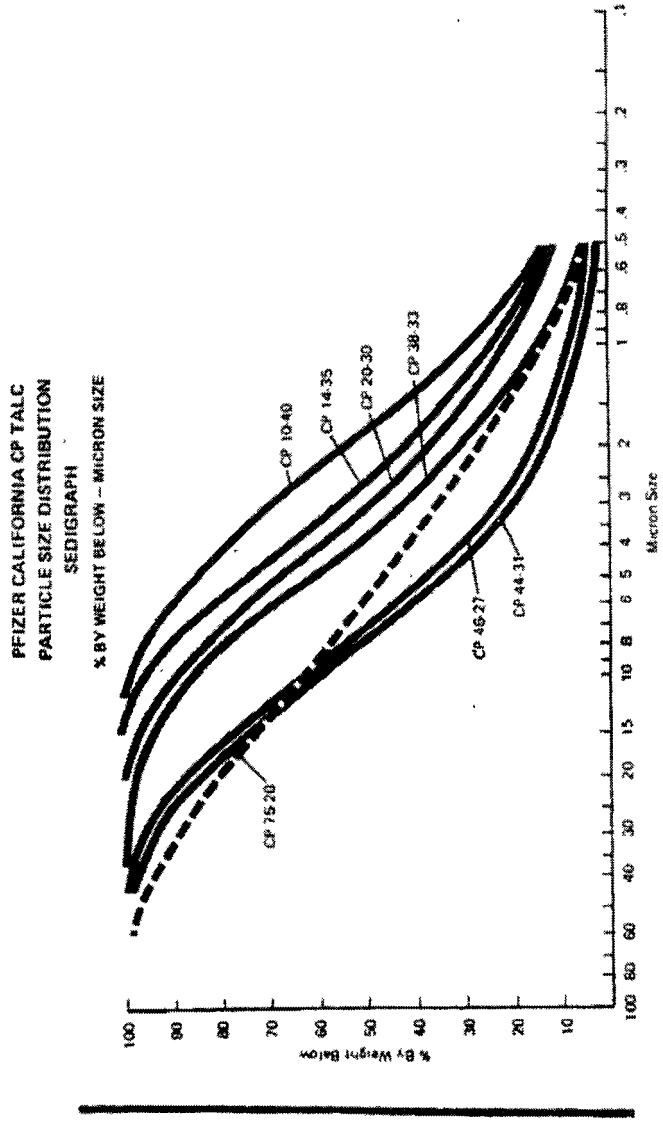
CHEMICAL COMPOSITION - (typical)

	CP 10-40	CP 14-36	CP 20-30	CP 38-33	CP 44-31	CP 46-27	CP 75-20
Silicon Dioxide (SiO_2)	52.4%	52.4%	52.4%	52.4%	46.5%	52.4%	52.4%
Magnesium Oxide (MgO)	27.6%	27.6%	27.6%	27.6%	24.3%	27.6%	27.6%
Calcium Oxide (CaO)	6.2%	6.2%	6.2%	6.2%	11.3%	6.2%	6.2%
Aluminum Oxide (Al_2O_3)	1.4%	1.4%	1.4%	1.4%	0.8%	1.4%	1.4%
Ferric Oxide (Fe_2O_3)	0.3%	0.3%	0.3%	0.3%	0.4%	0.3%	0.3%
Acid Solubles as CaO-max	9.0%	9.0%	9.0%	9.0%	14.0%	9.0%	9.0%
Loss on Ignition	10.3%	10.3%	10.3%	10.3%	16.5%	10.3%	10.3%

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PHYSICAL PROPERTIES - (typical)

	CP10-40	CP14-35	CP20-30	CP38-33	CP44-31	CP46-27	CP74-20
Specific Gravity	2.75	2.75	2.75	2.75	2.77	2.75	2.75
Weight per Solid Gal-lb.	22.91	22.91	22.91	22.91	23.10	23.36	23.28
One Pound Bulks-gal.	0.0437	0.0437	0.0437	0.0437	0.0433	0.0428	0.0430
Loose Density-lb./ft.^{3}	10.6	12.6	15.0	16.5	28.0	27.0	22.0
g/cc	.17	.20	.24	.26	.45	.43	.35
Tapped Density-lb./ft.^{3}	26.9	33.9	39.0	42.5	57.0	57.0	55.0
g/cc	.43	.54	.62	.68	.91	.91	.88
Retention-325 Mesh	nil	nil	nil	Trace	1.0% max	1.5%	5.0%
Dry Brightness	95	95	95	94	90	92	90.5
Oil Absorption	38	34	29	30	28	25	22
pH Value	9.4	9.4	9.3	9.2	8.9	9.4	9.4
Hegman Fineness	6.5	5.5	5.5	4.5	2	2	-



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235 EAST 42nd STREET NEW YORK N.Y. 10017

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CALIFORNIA CP TALCS

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CHEMICAL COMPOSITION - (typical)

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Magnesium Oxide (MgO)	27.6%	27.6%	27.6%	27.6%	24.3%	27.6%	27.6%
Calcium Oxide (CaO)	6.2%	6.2%	6.2%	6.2%	11.3%	6.2%	6.2%
Aluminum Oxide (Al_2O_3)	1.4%	1.4%	1.4%	1.4%	0.8%	1.4%	1.4%
Ferric Oxide (Fe_2O_3)	0.3%	0.3%	0.3%	0.3%	0.4%	0.3%	0.3%
Acid Solubles as CaO-max	9.0%	9.0%	9.0%	9.0%	14.0%	9.0%	9.0%
Loss on Ignition	10.3%	10.3%	10.3%	10.3%	16.5%	10.3%	10.3%

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PFIZER CALIFORNIA CP TALC
PARTICLE SIZE DISTRIBUTION
SEDIGRAPH
% BY WEIGHT BELOW – MICRON SIZE
CP 10-40
CP 14-35
CP 20-30
CP 38-33
CP 46-27
CP 44-31
CP 75-20
% By Weight Below
Micron Size

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Pfizer MINERALS, PIGMENTS & METALS DIVISION
235 EAST 42nd STREET, NEW YORK, N.Y. 10017

Pfizer

TECHNICAL DATA

TR-345-11 ©Pfizer 1983

CALIFORNIA TALC FOR PAINT AND PLASTICS

MICROTALC AND TALCRON TALC PRODUCTS
CALIFORNIA TALC FOR PAINT AND PLASTICS

California talc products produced by Pfizer Inc. at Victorville, California, are made from blends of high quality talc ores from Pfizer's deposits in Southern California. These select ores are noted for their excellent white color and brightness. California talc consists primarily of platy talc (hydrous magnesium silicate) with lesser amounts of closely associated minerals including calcite, dolomite, tremolite, and quartz, which are inherent in the ore deposits.

Pfizer Microtalc and Talcron products are used as white extender pigments and functional fillers in paint and plastic formulations. They are produced in a range of particle sizes ranging in Hegman values of 3½ to 6+.

CHEMICAL COMPOSITION (Typical)

SiO_2	51.7
MgO	27.2
CaO	9.0
Al_2O_3	1.4
Fe_2O_3	0.4
Loss on Ignition	10.3

Note: The theoretical composition of pure talc is silica 63.5%, magnesia 31.7% water 4.8%. Natural talc ores may differ in composition depending upon the associated minerals present.

PHYSICAL PROPERTIES (Typical)

	Microtalc CP 10-40	Microtalc CP 14-35	Microtalc CP 20-30	Talcron CP 38-33	Talcron CP 44-31
Specific Gravity	2.7	2.7	2.7	2.7	2.7
Weight per Solid Gal. (lbs.)	22.52	22.52	22.52	22.52	22.52
One lb. bulks ($ft.^3$)	.0444	.0444	.0444	.0444	.0444
Loose Density ($lbs./ft^3$)	10.6	12.6	15.0	16.0	28
Tapped Density ($lbs./ft^3$)	26.9	33.9	39.0	42.5	57
Dry Brightness	94	94.5	94	94	90
Oil Absorption	38	37	34	32	24
pH	9.4	9.4	9.4	9.4	9.4
Hegman Fineness	6	5.5+	4.5+	4.0+	3.5
Retention 325μ	nil	nil	nil	Tr	1.0

Because some tremolite occurs in the shape of elongated fragments which fall within the current OSHA definition of a fiber, this product is supplied with the following caution:

CAUTION, AVOID CREATING DUST: This talc contains fibrous tremolite. Breathing tremolite fibers may cause serious bodily harm. Compliance with OSHA standards and any state or local regulations is required. Respirators or dust masks recommended by NIOSH or the Bureau of Mines are recommended.

All information given and recommendations made herein are based upon our research and are believed to be accurate, but no guarantee, either expressed or implied, is made with respect thereto or with respect to the infringement of any patent. Our products are sold on the understanding that the user is solely responsible for determining their suitability for any purpose. This information is not to be copied, used in evidence, released for publication or public distribution without written permission from Pfizer Inc.