



Cyprus Minerals Company

MATERIAL SAFETY DATA SHEET

HMIS

Health	1
Flammability	0
Reactivity	0
Personal Protection	E

I. IDENTIFICATION

Product Name:	ALTALC 200 USP		
Chemical Name:	TALC; HYDROUS MAGNESIUM SILICATE	Chemical Family:	SILICATES
Formula:	$3\text{MgO} \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$		

II. INGREDIENTS

Mineral or Chemical Name(s)	Weight %	CAS #
TALC - A NATURAL HYDROUS MAGNESIUM SILICATE MINERAL	90-99%	14807-96-6
DOLOMITE - A NATURAL MAGNESIUM CALCIUM CARBONATE MINERAL	less than 5%	None
CALCITE - A NATURAL CALCIUM CARBONATE MINERAL	less than 5%	1317-65-3
CHLORITE - A NATURAL HYDROUS MAGNESIUM ALUMINUM SILICATE MINERAL	less than 5%	None
QUARTZ - A NATURAL CRYSTALLINE SILICA MINERAL	less than 1%	14808-60-7

III. PHYSICAL DATA

Boiling Point: NOT APPLICABLE		Freezing Point: NOT APPLICABLE	
Vapor Pressure: NOT APPLICABLE		Vapor Density: NOT APPLICABLE	
Evaporation Rate: NOT APPLICABLE		% Volatile: NOT APPLICABLE	
Specific Gravity (water = 1): 2.7 - 2.8		Solubility in Water: NEGLIGIBLE	pH: 7.5 - 9.5
Appearance and Odor: A WHITE POWDER WITH AN EARTHY ODOR			

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: NOT APPLICABLE	Flammable Limits: NOT APPLICABLE
Extinguishing Media: NOT APPLICABLE	
Special Fire Fighting Procedures: NOT APPLICABLE	
Unusual Fire and Explosion Hazards: NOT APPLICABLE	

V. HEALTH HAZARD DATA

Threshold Limit Value: 2 mg/M ³ RESPIRABLE DUST OVER AN 8 HOUR EXPOSURE PERIOD	
Possible Effects of a Single Overexposure	
Inhalation	ACUTE ACCIDENTAL EXPOSURE WOULD BE NON-SPECIFIC AND SIMILAR TO THE INHALATION OF ANY DUST. SUCH SYMPTOMS MIGHT INCLUDE COUGHING, WHEEZING, DIFFICULT BREATHING AND UPPER RESPIRATORY TRACT IRRITATION.
Skin Contact	NO ADVERSE EFFECTS ARE KNOWN AS A CONSEQUENCE OF APPLICATION TO UNBROKEN SKIN.
Eye Contact	AS WITH ANY PARTICULATE MATERIAL, TALC CAN CAUSE TEMPORARY DISCOMFORT AND IRRITATION IF ACCIDENTALLY INTRODUCED INTO THE EYE.
Ingestion	NO KNOWN HAZARD.

Cyprus Industrial Minerals Company/Talc Division
Box 3419, Englewood, CO 80155/(303) 740-5440

54-1003T (Rev. 10-85)

PLAINTIFF'S
EXHIBIT
CAM-226

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TYPICAL DATA SHEET

Cyprus Industrial Minerals Company

Talc Division
555 South Flower Street • Los Angeles, California 90071 • Telephone (213) 489-3700

ALTALC 200 TALC

ALTALC 200 TALC is an ultra-high purity, platy, pharmaceutical/cosmetic USP Talc with very low acid solubles and free of asbestos impurities. It conforms to USP and CTFA specifications while being especially treated to control bacteria.

CHEMICAL ANALYSIS

	Percent		Parts Per Million
MgO	32	Pb	not detected
SiO ₂	62	Sb	not detected
Fe ₂ O ₃	1	As	not detected
CaO	trace	Cd	0.5
Al ₂ O ₃	<1	Hg	0.02
		Se	4
		Ba (water soluble)	1.5

MINERAL ANALYSIS

	Percent
Talc (3MgO·4SiO ₂ ·H ₂ O)	97
Chlorite (5MgO·Al ₂ O ₃ ·3SiO ₂ ·4H ₂ O)	3
Dolomite	trace
Quartz	trace
Asbestos Minerals	not detected

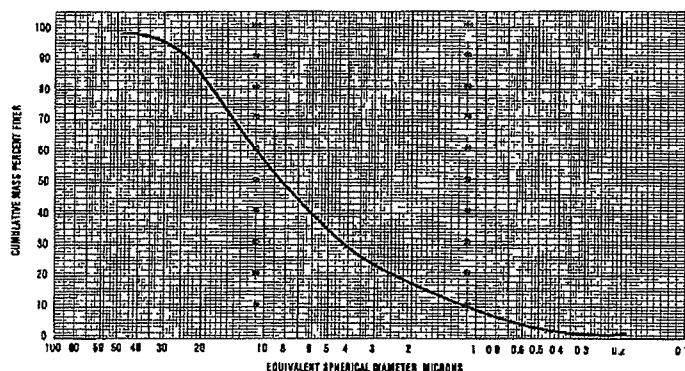
USP CERTIFICATION

Loss on Ignition, %	5 max.	Water Solubles %	0.1
Acid Solubles, % (as SO ₄)	2 max.	Water Soluble Iron	none

PHYSICAL PROPERTIES

Brightness, % (relative to MgO)		Specific Gravity	2.8
General Electric	90	Acid Solubles, % (as CaO)	0.3
Luminous Green Filter	91	Adsorbed Moisture %	0.5
Apparent Density	lbs./ft. ³ g/ml	pH (1:5 Dilution)	8
Loose, CTFA C8-1	28 0.45	Oil Absorption	Lbs./100 lbs.
Tapped, CTFA C7-1	62 0.99	Spatula Rub-Out ASTM D281	25
		Gardner-Coleman ASTM D1483	35

PARTICLE SIZE DISTRIBUTION



% minus 100 mesh	100
% minus 200 mesh, 74 μm	99
% minus 325 mesh, 44 μm	97
% minus 20 μm	85
% minus 10 μm	56
% minus 5 μm	34
% minus 2 μm	17
% minus 1 μm	9
Median particle size μm	8.5

Data presented are representative of most recent testing and are offered in good faith as being typical of normal production.

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ALTALC 200 USP

200 MESH - Conforms to
USP, CTFA and Food Codex
Cosmetic and Pharmaceutical

PHYSICAL PROPERTIES

Brightness	86 ± 2%	GEB, MgO = 100%
Loose Density	29 ± 2 lbs/ft ³	CTFA C8-1
Tapped Density	62 ± 2 lbs/ft ³	CTFA C7-1
Specific Gravity	2.8	ASTM 153-82
Acid Solubles	2% max	USP XXI
Oil Absorption	27 ± 3g/100g	ASTM D281
Water Solubles	0.1% max	USP XXI
Filtrate Reaction to Litmus	Neutral	USP XXI
Water Soluble Iron	Not Detected	USP XXI

MICRO BIOLOGICAL

Total Aerobic Plate Count (incl. Yeast and Mold) < 100 Counts CSTM 34
Gran Negative Plate Count Counts Not Detected . . . CSTM 34

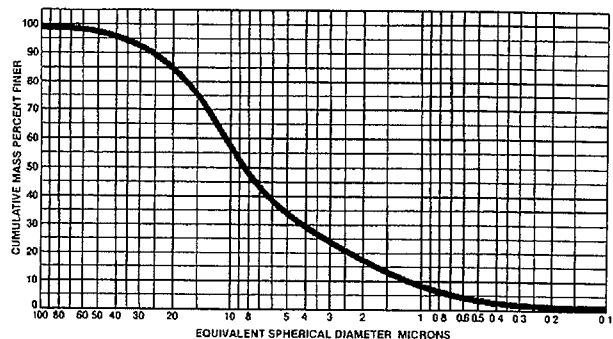
Specially treated for control of bacteria

PARTICLE SIZE DISTRIBUTION

Percent Passing	200 MESH	98 min.
	325 MESH	97
	20 μ m	85
	10 μ m	56
	5 μ m	34
	2 μ m	17
	1 μ m	9

MEDIAN PARTICLE SIZE 8.5 μ m

SEDIGRAPH 5000



CHEMICAL ANALYSIS

MgO	31%	XRF
SiO ₂	61%	XRF
Fe ₂ O ₃	1%	XRF
CaO	0.5%	XRF
Al ₂ O ₃	1%	XRF
L.O.I.	5.5 ± 0.5%	USP XXI

Quartz	< 1%	XRD
Amphibole Asbestos	Not Detected	CTFA J4-1
Lead	< 5 ppm	USP XXI
Arsenic	< 1 ppm	USP XXI
Heavy Metals	< 20 ppm	USP XXI
Flourine	< 20 ppm	Food Codex
Iron (extractable)	< 500 ppm	USP XXI

Specially treated to maintain high purity.

The data presented are based on tests that Cyprus believes to be reliable and are offered in good faith as typical of normal production, but Cyprus makes no warranty or representation of any kind, express or implied, regarding the information given or the product described, including any warranty of suitability for a particular purpose. The user is solely responsible for its use of the information and product. Cyprus disclaims any liability based on any claim of patent infringement.



1835-7-86

CYPRUS INDUSTRIAL MINERALS COMPANY
TALC DIVISION BOX #3419 ENGLEWOOD, CO 80155
1-800-325-0299

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Cyprus Minerals Company

MATERIAL SAFETY DATA SHEET

HMIS

Health	1
Flammability	0
Reactivity	0
Personal Protection	E

I. IDENTIFICATION

Product Name:	ALTALC 300 USP		
Chemical Name:	TALC; HYDROUS MAGNESIUM SILICATE	Chemical Family:	SILICATES
Formula:	$3\text{MgO} \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$		

II. INGREDIENTS

Mineral or Chemical Name(s)	Weight %	CAS #
TALC - A NATURAL HYDROUS MAGNESIUM SILICATE MINERAL	90-99%	14807-96-6
DOLOMITE - A NATURAL MAGNESIUM CALCIUM CARBONATE MINERAL	less than 5%	None
CALCITE - A NATURAL CALCIUM CARBONATE MINERAL	less than 5%	1317-65-3
CHLORITE - A NATURAL HYDROUS MAGNESIUM ALUMINUM SILICATE MINERAL	less than 5%	None
QUARTZ - A NATURAL CRYSTALLINE SILICA MINERAL	less than 1%	14808-60-7

III. PHYSICAL DATA

Boiling Point: NOT APPLICABLE		Freezing Point: NOT APPLICABLE	
Vapor Pressure: NOT APPLICABLE		Vapor Density: NOT APPLICABLE	
Evaporation Rate: NOT APPLICABLE		% Volatile: NOT APPLICABLE	
Specific Gravity (water = 1): 2.7 - 2.8		Solubility in Water: NEGLIGIBLE	pH: 7.5 - 9.5
Appearance and Odor: A WHITE POWDER WITH AN EARTHY ODOR			

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: NOT APPLICABLE	Flammable Limits: NOT APPLICABLE
Extinguishing Media: NOT APPLICABLE	
Special Fire Fighting Procedures: NOT APPLICABLE	
Unusual Fire and Explosion Hazards: NOT APPLICABLE	

V. HEALTH HAZARD DATA

Threshold Limit Value: 2 mg/M ³ RESPIRABLE DUST OVER AN 8 HOUR EXPOSURE PERIOD	
Possible Effects of a Single Overexposure	
Inhalation	ACUTE ACCIDENTAL EXPOSURE WOULD BE NON-SPECIFIC AND SIMILAR TO THE INHALATION OF ANY DUST. SUCH SYMPTOMS MIGHT INCLUDE COUGHING, WHEEZING, DIFFICULT BREATHING AND UPPER RESPIRATORY TRACT IRRITATION.
Skin Contact	NO ADVERSE EFFECTS ARE KNOWN AS A CONSEQUENCE OF APPLICATION TO UNBROKEN SKIN.
Eye Contact	AS WITH ANY PARTICULATE MATERIAL, TALC CAN CAUSE TEMPORARY DISCOMFORT AND IRRITATION IF ACCIDENTALLY INTRODUCED INTO THE EYE.
Ingestion	NO KNOWN HAZARD.

Cyprus Industrial Minerals Company/Talc Division
Box 3419, Englewood, CO 80155/(303) 740-5440

54-1003T (Rev. 10-85)

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Possible Effects of Repeated Overexposure

THERE ARE REPORTS THAT A RELATIVELY MILD PNEUMONOCOCONIOSIS CAN DEVELOP OVER 10-40 YEARS OF OCCUPATIONAL EXPOSURE TO MIXED DUSTS CONTAINING TALC. THE PULMONARY DISEASE WHICH DEVELOPS AFTER SUCH PROLONGED EXPOSURE MAY EXIST WITH OR WITHOUT IMPAIRMENT IN LUNG FUNCTION. PROLONGED INHALATION MAY PROVOKE A FIBROTIC RESPONSE SIMPLY BECAUSE OF THE INSOLUBLE NATURE OF THE MINERAL TALC.

Emergency and First Aid Procedures

Inhalation	REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN AND CALL A PHYSICIAN.
Skin Contact	OF NO GENERAL CONCERN. BROKEN SKIN CAN BE CLEANSED WITH SOAP AND WATER.
Eye Contact	FOR ACUTE EXPOSURE, FLUSH WITH WATER. IF IRRITATION OR DISCOMFORT PERSISTS, CALL A PHYSICIAN.
Ingestion	NO TREATMENT NECESSARY.

Notes to Physician

THERE ARE NO SPECIFIC ANTIDOTES TO ACUTE OVEREXPOSURE. TREATMENT SHOULD BE DIRECTED AT THE CONTROL OF THE SYMPTOMS AND THE CLINICAL CONDITION. INDIVIDUALS WITH ACTIVE PULMONARY DISEASE SHOULD NOT BE ASSIGNED TO A HEAVY TALC DUST ENVIRONMENT.

VI. REACTIVITY DATA

Stability: TALC IS STABLE AND INERT

Incompatibility: NONE

Hazardous Decomposition Products: NONE

Hazardous Polymerization: NONE

Conditions to Avoid: NONE

VII. SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled	VACUUM CLEAN OR WET SWEEP SPILLAGE
Waste Disposal Method	WASTE SHOULD BE DISPOSED OF IN CLOSED CONTAINERS TO PREVENT DUST

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection	NIOSH APPROVED DUST RESPIRATORS FOR EXPOSURE TO POTENTIALLY HIGH TALC DUST ENVIRONMENTS		
Ventilation	LOCAL EXHAUST VENTILATION RECOMMENDED		
Protective Gloves	NOT REQUIRED	Eye Protection	SAFETY GLASSES
Other Protective Equipment	NOT REQUIRED		

IX. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storage

- AS WITH ALL POWDERS, LIMIT THE CREATION AND INHALATION OF DUST
- WET FLOORS MAY BECOME EXTREMELY SLIPPERY WHEN TALC IS PRESENT

X. ADDITIONAL INFORMATION

EMERGENCY TELEPHONE NUMBERS

Medical: (303) 740-5440

Technical: (303) 740-5700

54-1003T (10-85) Back - Prepared by the Cyprus Industrial Minerals Product Stewardship Committee

FEDERAL HAZARD CLASSIFICATION NUMBERS

- DOT Hazard Classification - Talc not listed
- RCRA Hazardous Waste No. - Talc not listed
- CERCLA (Superfund) Reportable Quantity - Talc not listed

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TYPICAL DATA SHEET

Cyprus Industrial Minerals Company

Talc Division
555 South Flower Street • Los Angeles, California 90071 • Telephone (213) 489-3700

ALTALC 300 TALC

ALTALC 300 TALC is an ultra-high purity, platy, pharmaceutical/cosmetic USP talc with very low acid solubles and free of asbestos impurities. It conforms to USP and CTFA specifications while being especially treated to control bacteria.

CHEMICAL ANALYSIS

	Percent		Parts Per Million
MgO	32	Pb	not detected
SiO ₂	62	Sb	not detected
Fe ₂ O ₃	1	As	not detected
CaO	trace	Cd	0.5
Al ₂ O ₃	<1	Hg	0.02
		Se	4
		Ba (water soluble)	1.5

MINERAL ANALYSIS

	Percent
Talc (3MgO·4SiO ₂ ·H ₂ O)	97
Chlorite (5MgO·Al ₂ O ₃ ·3SiO ₂ ·4H ₂ O)	3
Dolomite	trace
Quartz	trace
Asbestos Minerals	not detected

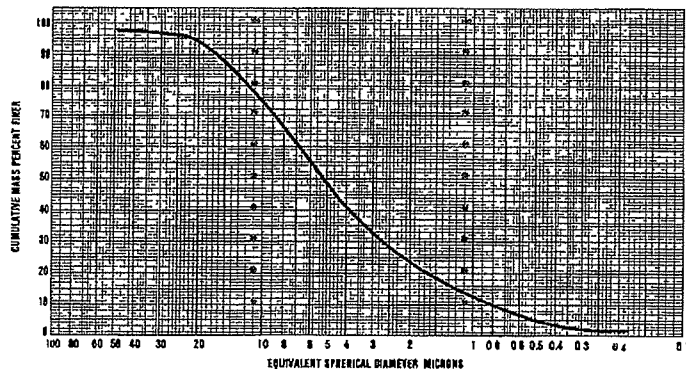
USP CERTIFICATION

Loss on Ignition, %	5 max.	Water Solubles %	0.1
Acid Solubles, % (as SO ₄)	2 max.	Water Soluble Iron	none

PHYSICAL PROPERTIES

Brightness, % (relative to MgO)		Specific Gravity	2.8
General Electric	90	Acid Solubles, % (as CaO)	0.3
Luminous Green Filter	91	Adsorbed Moisture %	0.5
Apparent Density	Lbs./ft ³ g/ml	pH (1:5 Dilution)	8
Loose, CTFA C8-1	18 0.29	Oil Absorption	Lbs./100 lbs.
Tapped, CTFA C7-1	50 0.80	Spatula Rub-Out ASTM D281	30
		Gardner-Coleman ASTM D1483	43

PARTICLE SIZE DISTRIBUTION



% minus 100 mesh	100
% minus 200 mesh, 74 μm	99.9
% minus 325 mesh, 44 μm	99
% minus 20 μm	95
% minus 10 μm	75
% minus 5 μm	48
% minus 2 μm	23
% minus 1 μm	12
Median particle size μm	6.5

Data presented are representative of most recent testing and are offered in good faith as being typical of normal production.

CYPRITE

ALTA LC 300 USP

325 MESH - Conforms to
USP, CTFA and Food Codex
Cosmetic and Pharmaceutical

PHYSICAL PROPERTIES

Brightness	86 ± 2%	GEB, MgO = 100%
Loose Density	20 ± 2 lbs/ft ³	CTFA C8-1
Tapped Density	48 ± 2 lbs/ft ³	CTFA C7-1
Specific Gravity	2.8	ASTM 153-82
Acid Solubles	2% max	USP XXI
Oil Absorption - SRO	33 ± 3g/100g	ASTM D281
Water Solubles	0.1% max	USP XXI
Filtrate Reaction to Litmus	Neutral	USP XXI
Water Soluble Iron	Not Detected	USP XXI

MICRO BIOLOGICAL

Total Aerobic Plate Count (incl. Yeast and Mold)	< 100 Counts	CSTM 34
Gran Negative Plate Count	No Counts Detected	CSTM 34

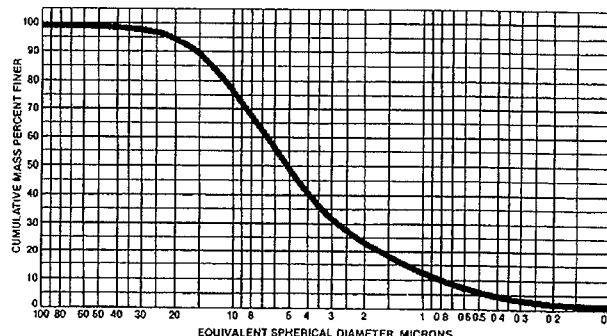
Specially treated for control of bacteria.

PARTICLE SIZE DISTRIBUTION

Percent Passing	200 MESH	99 min.
	325 MESH	98
	20 μ m	95
	10 μ m	75
	5 μ m	48
	2 μ m	23
	1 μ m	12

MEDIAN PARTICLE SIZE 6 μ m

SEDIGRAPH 5000



CHEMICAL ANALYSIS

MgO	31%	XRF
SiO ₂	61%	XRF
Fe ₂ O ₃	1%	XRF
CaO	0.5%	XRF
Al ₂ O ₃	1%	XRF
L.O.I.	5.5 ± 0.5%	USP XXI

Quartz	< 1%	XRD
Amphibole Asbestos	Not Detected	CTFA J4-1
Lead	< 5 ppm	USP XXI
Arsenic	< 1 ppm	USP XXI
Heavy Metals	< 20 ppm	USP XXI
Flourine	< 20 ppm	Food Codex
Iron (extractable)	< 500 ppm	USP XXI

Specially treated to maintain high purity.

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CYPRUS INDUSTRIAL MINERALS COMPANY
TALC DIVISION BOX #3419 ENGLEWOOD, CO 80155
1-800-325-0299



CAMC-Logiudice-001216



MATERIAL SAFETY DATA SHEET

HM(S)

Health	1
Flammability	0
Reactivity	0
Personal Protection	E

I. IDENTIFICATION

Product Name: ALTALC 400 USP

Chemical Name: TALC; HYDROUS MAGNESIUM SILICATE

Chemical Family: SILICATES

Formula: $3\text{MgO} \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$

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III. PHYSICAL DATA

Boiling Point: NOT APPLICABLE

Freezing Point: NOT APPLICABLE

Vapor Pressure: NOT APPLICABLE

Vapor Density: NOT APPLICABLE

Evaporation Rate: NOT APPLICABLE

% Volatile: NOT APPLICABLE

Specific Gravity (water = 1): 2.7 - 2.8

Solubility in Water: NEGLIGIBLE

pH: 7.5 - 9.5

Appearance and Odor: A WHITE POWDER WITH AN EARTHY ODOR

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: NOT APPLICABLE

Flammable Limits: NOT APPLICABLE

Extinguishing Media: NOT APPLICABLE

Special Fire Fighting Procedures: NOT APPLICABLE

Unusual Fire and Explosion Hazards: NOT APPLICABLE

V. HEALTH HAZARD DATA

Threshold Limit Value: 2 mg/M³ RESPIRABLE DUST OVER AN 8 HOUR EXPOSURE PERIOD

Possible Effects of a Single Overexposure

Inhalation	ACUTE ACCIDENTAL EXPOSURE WOULD BE NON-SPECIFIC AND SIMILAR TO THE INHALATION OF ANY DUST. SUCH SYMPTOMS MIGHT INCLUDE COUGHING, WHEEZING, DIFFICULT BREATHING AND UPPER RESPIRATORY TRACT IRRITATION.
Skin Contact	NO ADVERSE EFFECTS ARE KNOWN AS A CONSEQUENCE OF APPLICATION TO UNBROKEN SKIN.
Eye Contact	AS WITH ANY PARTICULATE MATERIAL, TALC CAN CAUSE TEMPORARY DISCOMFORT AND IRRITATION IF ACCIDENTALLY INTRODUCED INTO THE EYE.
Ingestion	NO KNOWN HAZARD.

Cyprus Industrial Minerals Company/Talc Division
Box 3419, Englewood, CO 80155/(303) 740-5440

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VI. REACTIVITY DATA

Stability: TALC IS STABLE AND INERT

Incompatibility: NONE

Hazardous Decomposition Products: NONE

Hazardous Polymerization: NONE

Conditions to Avoid: NONE

VII. SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled

VACUUM CLEAN OR WET SWEEP SPILLAGE

Waste Disposal Method

WASTE SHOULD BE DISPOSED OF IN CLOSED CONTAINERS TO PREVENT DUST

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection	NIOSH APPROVED DUST RESPIRATORS FOR EXPOSURE TO POTENTIALLY HIGH TALC DUST ENVIRONMENTS		
Ventilation	LOCAL EXHAUST VENTILATION RECOMMENDED		
Protective Gloves	NOT REQUIRED	Eye Protection	SAFETY GLASSES
Other Protective Equipment	NOT REQUIRED		

IX. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storage

- AS WITH ALL POWDERS, LIMIT THE CREATION AND INHALATION OF DUST
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X. ADDITIONAL INFORMATION

EMERGENCY TELEPHONE NUMBERS

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FEDERAL HAZARD CLASSIFICATION NUMBERS

- DOT Hazard Classification - Talc not listed
- RCRA Hazardous Waste No. - Talc not listed
- CERCLA (Superfund) Reportable Quantity - Talc not listed

TYPICAL DATA SHEET

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Talc Division
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ALTALC 400 TALC

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Al ₂ O ₃	<1	Hg	0.02
		Se	4
		Ba (water soluble)	1.5

MINERAL ANALYSIS

	Percent
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Chlorite (5MgO·Al ₂ O ₃ ·3SiO ₂ ·4H ₂ O)	3
Dolomite	trace
Quartz	trace
Asbestos Minerals	not detected

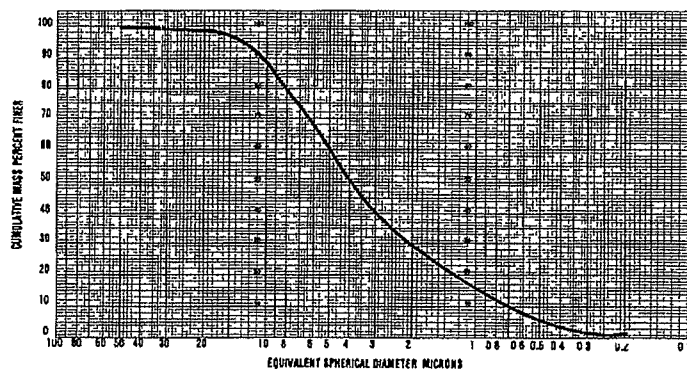
USP CERTIFICATION

Loss on Ignition, %	5 max.	Water Solubles %	0.1
Acid Solubles, % (as SO ₄)	2 max.	Water Soluble Iron	none

PHYSICAL PROPERTIES

Brightness, % (relative to MgO)		Specific Gravity	2.8
General Electric	90	Acid Solubles, % (as CaO)	0.3
Luminous Green Filter	91	Adsorbed Moisture %	0.5
Apparent Density	lbs/ft. ³ g/ml	pH (1:5 Dilution)	8
Loose, CTFA C8-1	14 0.22	Oil Absorption	Lbs./100 lbs.
Tapped, CTFA C7-1	41 0.66	Spatula Rub-Out ASTM D281	39
		Gardner-Coleman ASTM D1483	53

PARTICLE SIZE DISTRIBUTION



% minus 100 mesh	100
% minus 200 mesh, 74 μm	100
% minus 325 mesh, 44 μm	99.99
% minus 20 μm	98
% minus 10 μm	90
% minus 5 μm	61
% minus 2 μm	28
% minus 1 μm	16
Median particle size μm	4

Data presented are representative of most recent testing and are offered in good faith as being typical of normal production.

CYPRITE

ALTALC 400 USP

Talc Product #1856

Ultra Fine - Conforms to
USP, CTFA and Food Codex
Cosmetic and Pharmaceutical

PHYSICAL PROPERTIES

Brightness	88 ± 2%	GEB, MgO = 100%
Loose Density	16 ± 2 lbs/ft ³	CTFA C8-1
Tapped Density	41 ± 2 lbs/ft ³	CTFA C7-1
Specific Gravity	2.8	ASTM 153-82
Acid Solubles	2% max	USP XXI
Oil Absorption - SRO	39 ± 4g/100g	ASTM D281
Water Solubles	0.1% max	USP XXI
Filtrate Reaction to Litmus	Neutral	USP XXI
Water Soluble Iron	None	USP XXI

MICRO BIOLOGICAL

Total Aerobic Plate Count (incl Yeast & Mold)	< 100 per gram	CSTM 34
Gram Negative Plate Count	Not Detected	CSTM 34

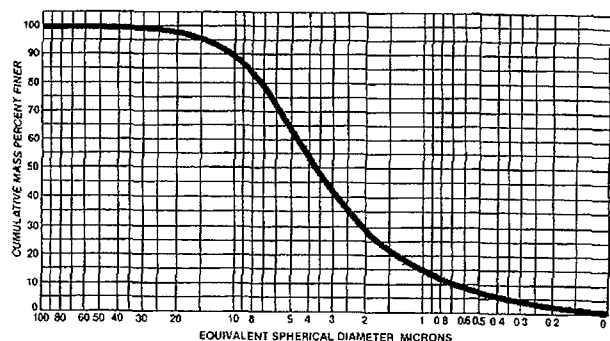
Specially treated for control of bacteria.

PARTICLE SIZE DISTRIBUTION

Percent Passing	200 MESH	100
	325 MESH	99
	20 μ m	98
	10 μ m	90
	5 μ m	61
	2 μ m	28
	1 μ m	16

MEDIAN PARTICLE SIZE 4 μ m

SEDIGRAPH 5000



CHEMICAL ANALYSIS

MgO	31%	XRF
SiO ₂	61%	XRF
Fe ₂ O ₃	1%	XRF
CaO	0.5%	XRF
Al ₂ O ₃	1%	XRF
L.O.I	5.5 ± 0.5%	USP XXI

Lead	< 5 ppm	USP XXI
Arsenic	< 1 ppm	USP XXI
Heavy Metals	< 20 ppm	USP XXI
Fluorine	< 20 ppm	Food Codex
Iron (extractable)	< 500 ppm	USP XXI
Quartz	< 1%	XRD
Amphibole Asbestos	Not Detected	CTFA J4-1

Asbestos, Tremolite, Actinolite and Anthophyllite are not detected by analytical techniques which include XRD, optical and electron microscopy.

The data presented are based on tests that Cyprus believes to be reliable and are offered in good faith as typical of normal production, but Cyprus makes no warranty or representation of any kind, express or implied, regarding the information given or the product described, including any warranty of suitability for a particular purpose. The user is solely responsible for its use of the information and product. Cyprus disclaims any liability based on any claim of patent infringement.



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