

8/6/90

PEPP ADVISORY

A sample of talc #32-6822, supplied by Southern Talc Company, was recently analyzed and found to contain tremolite, a type of asbestos.

The talc supplier's Material Safety Data Sheet (MSDS), provided to us in 1986, did not indicate the presence of any asbestos in the talc. After our recent analysis we contacted Southern Talc Company and received their current MSDS which mentions the presence of small amounts of asbestos fibers. (A copy of the MSDS is on file and available for review by any employee.)

The talc described above has been removed and replaced with an alternate material.

We believe that exposure, if any, to the tremolite has been of brief duration and of low intensity.

Based on information from the talc supplier, we do not suspect a health risk from our past use of this material.

We are currently attempting to determine the exact duration and extent of our past talc usage.

Please direct any questions to the Manager, PEPP Department or the Medical Director.


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[illegible]

BULK SAMPLE ANALYSIS REPORT

Page 1

CLIENT: Gates Rubber Company

REPORT #: B790736

PROJECT: Soapstone Analysis

REPORT DATE: July 31, 1990

DATE RECEIVED: July 27, 1990

ESSTEK

LAB ID#

CLIENT ID#

SAMPLE LOCATION

ASBESTOS CONTENT

SAMPLE DESCRIPTION

B790736

32-6822-Denver

32-6822 Denver

5-10% Tremolite

Sample consists of gray powder containing 5-10% tremolite, 25-30% wollastonite, and 55-60% calcium carbonate.

B790737

32-6822 Galesburg

32-6822 Galesburg

5-10% Tremolite

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RECEIVED
Legal Dept.

SEP 26 1990

cc: Jack Lintz - Denver Mfg.
Mike Taber - Legal
J. Appelbaum - Clinic

September 25, 1990

To: Bill Robinson - Denver Mfg.

From: E. W. Karger - PEPP 

Subject: Talc (Soapstone) Usage

The hose specification group have researched the usage of talc in the former hose departments in Denver.

They found (1) General Operating Procedures for Mandrel lubrication for wrapped and wire hose of 2/6/70 and (2) Spec 3199-236 (no date). Both documents mention SOAPSTONE and describe usages similar to that formerly in use at Red Bay. SOAPSTONE was not defined by a Gates Approved Material number.

Please commence compiling a list of present and former employees that worked in the wrapped and wire hose departments since 1970.

File: Talc 32-6822
ROBIN990

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Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072 32-680

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid	DNA - Inert product
	Stable	X		

Incompatibility (Materials to Avoid)

DNA

Hazardous Decomposition or Byproducts

DNA

Hazardous Polymerization	May Occur		Conditions to Avoid	None
	Will Not Occur	X		

Section VI — Health Hazard Data

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

Health Hazards (Acute and Chronic)

Non-toxic material

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
None			

Signs and Symptoms of Exposure

May cause mechanical irritation to eyes and respiratory tract.

Medical Conditions

Generally Aggravated by Exposure Respiratory problems

Emergency and First Aid Procedures

Reduce exposure - Skin Contact: Remove dust with soap and water.

Eyes: Flush with water or eyewash.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Use normal cleanup procedures. Avoid causing dust

to become airborne. Vacuum cleaning system is recommended. Non-Hazardous material.

Waste Disposal Method

Non-toxic, handle as any nuisance dust. No special requirements for disposal.

Precautions to Be Taken in Handling and Storing

Employee exposure should be maintained below the recommended TLV.

Other Precautions

No special precautions - non-toxic material.

Section VIII — Control Measures

Respiratory Protection (Specify Type)

Any acceptable dust mask, approved by U.S. Bureau of Mines

Ventilation	Local Exhaust	Special
	Respirator	Suction fan to dust collector
	Mechanical (General)	Other
	U.S. Bureau of Mines - Nuisance dusts	Normal air circulator

Protective Gloves

Use gloves

Eye Protection

Safety glasses recommended.

Other Protective Clothing or Equipment

None recommended.

Work/Hygienic Practices

Remove dust with soap and water.

SOUTHERN TALC COMPANY

U.G.I. Clay and Minerals Group
P.O. Drawer F
Chatsworth, Georgia 30705

MATERIAL SAFETY DATA SHEET
Grade (901 A)

SECTION I PRODUCT IDENTIFICATION

Trade Name and Synonyms Grade (901 A) Talc

Chemical Family

Formula

Hydrous Magnesium Silicates $Mg_3(Si_4O_{10})(OH)_2$, $Mg_3(Si_4O_{10})(OH)_2Mg_3(OH)_6$

Magnesium Carbonate $CaMg(CO_3)_2$

SECTION II HAZARDOUS INGREDIENTS

Hazardous Components in the Solid Mixture

COMPONENT	CAS No.	% *	OSHA/PEL	ACGIH/TLV
Nonasbestiform Talc	14207-96-6	30-45	20 MPPCF	2.0mg/m ³
Chlorite/Biotite	NIA	45-55	20 MPPCF	2.0mg/m ³
Silica Quartz	14808-60-7	0-5		0.1mg/m ³
Dolomite/Calcite	16389-98-1	4-9	5.0mg/m ³	5.0mg/m ³
Amphibole		5-15		

NOTE: Asbestiform fibers, including talc and tremolite, may be present in this product but in amounts less than 0.1% by weight.

*by XRD (X-ray diffraction)

SECTION III PHYSICAL DATA

Appearance and Odor: Tan to light grey powder, light earthy odor.

Melting Point: Greater than 1300 °C, greater than 2372 °F.

solubility in Water: Insoluble

Bulk Density: 44-48 # per cubic ft.

Percent Volatile by Weight (%) at 1000°F: N/A

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SOUTHERN TALC COMPANY
U.C.I. Clay and Minerals Group
P.O. Drawer F
Chatsworth, Georgia 30705

4-695-453

MATERIAL SAFETY DATA SHEET
Grade (901 A) Talc

SECTION IV FIRE EXPLOSION DATA

Fire and Explosion Hazard
Non-flammable, Non-explosive

Flash Point
Not Applicable

Firefighting Media
Will not burn

Firefighting
Will not burn

SECTION V HEALTH HAZARD DATA

Health effects may arise from inhalation, ingestion, and/or contact with the skin and eyes. The toxic effects of talc are dependent on the route, dose, and properties of the nuisance particle. Talc pneumoconiosis is more prevalent among those inhaling talc containing asbestiform minerals than among those exposed to talc that does not contain these impurities. The pneumoconiosis varies from an asymptomatic simple type to disabling conglomerate pneumoconiosis. Ingestion of talc-treated food has been associated with stomach tumors. Repeated excessive contact with the skin in the absence of proper hygienic practices may result in skin irritation; skin granulomas have been reported after liberal use of talc on the body. Prolonged contact with the eye may cause irritation and/or conjunctivitis.

Asbestiform fibers may be present in this product at amounts less than 0.1% by weight.

 SOUTHERN TALC COMPANY

U.C. Clay and Minerals Group
P.O. Drawer 6
Chatsworth, Georgia 30705

MATERIAL SAFETY DATA SHEET
Grade (901 A) Talc

Prolonged contact with silica on the skin may produce granulomatous dermatoses distinguished by localized inflammation which may heal with scarring. Ingestion of large amounts may cause stomach and intestinal distress. Eye contact may cause irritation and/or conjunctivitis. Prolonged inhalation may result in silicosis, a disabling pulmonary fibrosis, characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stages, there is extreme fatigue, extreme dyspnea and cyanosis, loss of appetite, pleuritic pain, and total incapacity to work. Advanced silicosis may result in death due to cardiac failure or destruction of lung tissue.

First Aid (Inhalation)

Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep affected person warm and at rest. Massive accidental powder inhalation has been treated with parenteral corticosteroids and antibiotics, supported with sympathomimetic drugs and oxygen. Get medical attention immediately.

First Aid (Ingestion)

If large amounts have been ingested, give emetics to cause vomiting. Stomach siphon may be applied as well. Get medical attention immediately.

First Aid (Eyes)

May cause mechanical irritation to eyes. Wash eyes immediately and carefully for 15 to 20 minutes with running water, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

First Aid (Skin)

Contact during use produces no adverse effects, may dry skin. Generally any mineral should not come in contact with broken skin. To avoid repeated or prolonged contact with this chemical, use good hygienic practices. Wash with soap and a large amount of water.



SOUTHERN TALC COMPANY
U.C.I. Clay and Minerals Group
P.O. Drawer F
Chatsworth, Georgia 30705

Telephone 404-636-4517

MATERIAL SAFETY DATA SHEET
Grade (901 A) Talc

SECTION VI REACTIVITY DATA

Non-Reactive

SECTION VII SPILL OR LEAK PROCEDURES

Clean-up personnel need protection against inhalation of dusts or fumes. Eye protection is required. Dry vacuuming is preferred. Avoid excessive sweeping which may cause dust to become airborne, producing a nuisance dust situation.

Disposal

Non toxic. Wetting down may be helpful. Store with other non-hazardous wastes. Place in appropriate containers for disposal, keeping airborne particulates at a minimum. Dispose according to prevailing regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection

Provide a NIOSH/MSHA jointly approved respirator in the absence of proper environmental control. Contact your safety equipment supplier for proper mask type.

Ventilation

Provide general and/or local exhaust ventilation to keep exposures below the TLV.

Protective Clothing

Wear protective clothing, in accordance with standard nuisance dust exposure.

Eye Protection

Standard eye protection to guard against nuisance dust.



SOUTHERN TALC COMPANY

U.C.I. Clay and Minerals Group
P.O. Drawer F
Chatsworth, Georgia 30705

MATERIAL SAFETY DATA SHEET
Grade (901 A) Talc

SECTION IX

The information presented herein is believed to be accurate but is not warranted. Recipients are advised to confirm in advance that the information is current and applicable to meet their circumstances.

Doc.

Updated: June 16, 1983.

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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



32-6822

IDENTITY 901 A SOAPSTONE Gates Code LUBE 6822 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 Southern Talc Company	Emergency Telephone Number 404-695-4537
Address (Number, Street, City, State, and ZIP Code) Holly Street - P. O. Drawer F Chatsworth, Georgia 30705	Telephone Number for Information 404-695-4537 Date Prepared June 5, 1986 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)
Talc - Stearic - Soapstone Natural Mineral	20 MPPCF	2 mg/m ³	respirable dust	

Section III — Physical/Chemical Characteristics

Boiling Point	DNA	Specific Gravity (H ₂ O = 1)	2.7-2.8
Vapor Pressure (mm Hg.)	DNA	Melting Point	NONE
Vapor Density (AIR = 1)	DNA	Evaporation Rate (Butyl Acetate = 1)	DNA
Solubility in Water	NONE		
Appearance and Odor	Off White Powder - Odorless		

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	NONE	Flammable Limits	N/A	LEL	UEL
Extinguishing Media	Non-combustible				
Special Fire Fighting Procedures	DNA				
Unusual Fire and Explosion Hazards	DNA				

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- Reactivity Data

Unstable		Conditions to Avoid	DNA - Inert product
Stable	X		

Compatibility (Materials to Avoid)

DNA

Hazardous Decomposition or Byproducts

DNA

Hazardous Polymerization

May Occur

Conditions to Avoid

None

Will Not Occur

X

Section VI — Health Hazard Data

Route(s) of Entry:

Inhalation?

Skin?

Ingestion?

X

X

Health Hazards (Acute and Chronic)

Non-toxic material

Carcinogenicity:

NTP?

IARC Monographs?

OSHA Regulated?

None

Signs and Symptoms of Exposure

May cause mechanical irritation to eyes and respiratory tract.

Medical Conditions

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Eyes: Flush with water or eyewash.

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Other Precautions

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Section VIII — Control Measures

Respiratory Protection (Specify Type)

Any acceptable dust mask, approved by U.S. Bureau of Mines

Ventilation

Local Exhaust

Respirator

Special

Suction fan to dust collector

Mechanical (General) U.S. Bureau of Mines -
Nuisance dusts

Other

Normal air circulator

Protective Gloves

Use gloves

Eye Protection

Safety glasses recommended.

Other Protective Clothing or Equipment

None recommended.

Work/Hygiene Practices

Remove dust with soap and water.

CONFIDENTIAL



Esstek 11435 W. I-70 Frontage Road N. Wheat Ridge, CO 80033 (303) 425-7038 Fax (303) 422-8732

BULK SAMPLE ANALYSIS REPORT

CLIENT: Gates Rubber Co.
Attn: Ernie Karger
PO Box 5887
Denver, CO 80217

REPORT # B790736 & B790737

REPORT DATE: July 31, 1990

PROJECT: Soapstone Analysis

DATE RECEIVED: July 27, 1990
PO# None Given

Attached are the results of analysis of bulk samples submitted for asbestos identification.

Each sample was initially examined under a Nikon SMZ-2T stereoscopic microscope at a magnification of 10X to 60X. Fibrous material was examined for morphology and content.

Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors.

Asbestos fiber content is estimated by optically comparing the quantity of non-asbestos material to asbestos fibers.

The samples analyzed in this report were provided by third parties not subject to control by EssTek or its affiliates. Consequently, the results presented represent microscopic examinations in EssTek laboratory facilities and EssTek makes no representation as to sample collection techniques or procedures.

Esstek participates in the National Voluntary Laboratory Accreditation Program. Our NVLAP laboratory I.D. number is 1602.

Submitted by: *Gina Festi-Gitano*
Gina Festi-Gitano
Senior Analyst

Analysts: *Alan Gitano*

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BULK SAMPLE ANALYSIS REPORT

Page 1

CLIENT: Gates Rubber Company

REPORT #: B790736

PROJECT: Soapstone Analysis

REPORT DATE: July 31, 1990

DATE RECEIVED: July 27, 1990

ESSTEK

LAB ID#

CLIENT ID#

SAMPLE LOCATION

ASBESTOS CONTENT

SAMPLE DESCRIPTION

B790736

32-6822-
Denver

32-6822 Denver

5-10% Tremolite

Sample consists of gray powder containing 5-10% tremolite, 25-30% wollastonite, and 55-60% calcium carbonate.

B790737

32-6822
Galesburg

32-6822
Galesburg

5-10% Tremolite

Sample consists of gray powder containing 5-10% tremolite, 25-30% wollastonite, and 55-60% calcium carbonate.

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DATE	PLANT	SAMPLE TYPE	GATES #	ESSTEK #	RESULTS
9/7/90	RED BAY	BULK	083090RBA-01	B990092	5-10% TREMOLITE
9/7/90	RED BAY	BULK	083090RBA-02	B990093	5-10% TREMOLITE
9/12/90	RED BAY	AIR	091290REA-06	B990131	4.0 (PCM)*
9/12/90	RED BAY	AIR	091290REA-07	B990132	10.5 (PCM)
9/12/90	RED BAY	AIR	091290REA-08	B990133	7.0 (PCM)
9/12/90	RED BAY	AIR	091290REA-09	B990134	0.0 (PCM)
9/12/90	RED BAY	AIR	091290REA-10	B990135	9.5 (PCM)
9/12/90	RED BAY (TEM)	AIR	091290REA06	B990131	NSD
8/29/90	GALESBURG	AIR	1128-D03	B009001	NSD
8/29/90	GALESBURG	AIR	1129-D02	B009002	NSD
8/29/90	GALESBURG	AIR	1130-D02	B009003	1 (AMPHIBOLE)
8/29/90	GALESBURG	AIR	1204-D02	B009004	1 (AMPHIBOLE)
8/29/90	GALESBURG	AIR	1206-D03	B009005	NSD
8/29/90	GALESBURG	AIR	1209-D06	B009006	1 (AMPHIBOLE)
8/17/90	GALESBURG	BULK	A	B890262	NONE DETECTED
8/17/89	GALESBURG	BULK	B	B890263	NONE DETECTED
8/24/90	GALESBURG	AIR	3135	B890322	3.0 (PCM)*
8/24/90	GALESBURG	AIR	3139	B890323	1.0 (PCM)*
8/24/90	GALESBURG	AIR	3136	B890324	10.0 (PCM)
8/24/90	GALESBURG	AIR	3137	B890325	1.0 (PCM)
8/24/90	GALESBURG	AIR	3138	B890326	8.0 (PCM)
8/24/90	GALESBURG (TEM)	AIR	3135	B890322	NSD
8/24/90	GALESBURG (TEM)	AIR	3139	B890323	NSD
7/27/90	GALESBURG	BULK	32-6822-GALESB790737		5-10% TREMOLITE
MANVILLE 7/30/90	GALESBURG	BULK	32-6822-GALES43-2		27% TREMOLITE
8/24/90	DENVER (TEM)	AIR	GRC0828BKG1	009035	NSD
7/27/90	DENVER	BULK	32-6822-DEN	B790736	5-10% TREMOLITE
MANVILLE 7/30/90	DENVER	BULK	32-6822-DEN 43-1		38% TREMOLITE
8/28/90	DENVER	AIR	GRC0828BKG-1	0890420	8.0 (PCM)
8/28/90	DENVER	AIR	GRC0828BKG-2	0890421	RERUN---
8/28/90	DENVER	AIR	GRC0828BKG-3	0890422	11.0 (PCM)
8/28/90	DENVER	AIR	GRC0828BKG-4	0890423	0.0
8/28/90	DENVER	AIR	GRC0828BKG-5	0890424	0.0
8/24/90	DENVER (TEM)	AIR	GRC0924PER-1	009078	NSD
8/24/90	DENVER (TEM)	AIR	GRC0924BLK-1	009079	BLANK-NOTANALYZED
8/24/90	DENVER (TEM)	AIR	GRC0924BLK-2	009080	" " "
10/19/90	DENVER (TEM)		101290DNA-01	B100083	POS. FOR TREMOL.
10/19/90	DENVER (TEM)		101290DNA-02	B100084	" " "

ISD - NO STRUCTURES DETECTED

ALC.LST

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