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LUZENAC AMERICA, INC.
9000 East Nichols Avenue
Englewood, Colorado 80112
1-800-325-0299
1-303 643-0400

For MEDICAL EMERGENCY information
Contact: 1-303-623-5716 (24 HR.)
ROCKY MTN POISON CONTROL CENTER

SUBSTANCE INFORMATION

SUBSTANCE: TALC

SYNONYMS: Talcum, Soapstone, Steatite

RTEC Number: W2710000

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

CHEMICAL FAMILY: Silicate

PRODUCT NAMES: The health and safety data contained herein applies to Luzenac America talc products bearing the following names:

ACT II 200 USP	CIMPACT 500	JETFIL 200	MISTRON MONOMIX	STELLAR EX
ACT II 250 USP	CIMPACT 510	JETFIL 350	MISTRON FROST	STERILINE 200
ACT II 400 USP	CIMPACT 600	JETFIL 350C	MISTRON SUPERFROST	STERILINE 320
ALPHA FIL 400 USP	CIMPACT 610	JETFIL 500	MISTRON ULTRAMIX	STERILINE 320V
ALPHA FIL 500 USP	CIMPACT 617	JETFIL 575P		STERILINE 325
ALTALC 200 USP	CIMPACT 655	JETFIL 575C	NICRON 302	STERILINE 400
ALTALC 300 USP	CIMPACT 699	JETFIL 625C	NICRON 100R	STERILINE 320A USP
ALTALC 325 USP	CIMPACT 705F	JETFIL 625H	NICRON 353	STERILINE 400A USP
ALTALC 400 USP	CIMPACT 710	JETFIL 700C	NICRON 403	SUPRA A
ALTALC 400G USP	CIMPACT 710B		NICRON 503	SUPRA AA
ALTALC 500 USP	CIMPACT 710R		NICRON 504	SUPRA EF A
ALTALC 600 USP	COS J	LUZENAC 8230	NICRON 554	SUPRAFINO A
ARTIC MIST		LUZENAC 8170	NICRON 604	
AURA 250	DOVER 50A	LUZCAN 610C	NICRON 660	TALC J
	FDC		NICRON 680 MY	TOPNOTE 200
	GRADE 910	MAXIMIX	NICRON 665	
BEAVERWHITE 200	GRADE 66	MISTROFIL PT	NICRON 675	ULTRAFINO
BEAVERWHITE 325		MISTRON 400		UB20
BRILLANTE	IMPERIAL A	MISTRON 500	REGAL 200	
BRILLANTE 150	IMPERIAL 200	MISTRON 600	SELECT-A-SORB	VERTAL 403
BRILLANTE 400	IMPERIAL 250	MISTRON 500 SP	SILVERLINE 665	VERTAL 410
	IMPERIAL 400	MISTRON 400C	STEASILK 5 CH	VERTAL 710
	IMPERIAL FEM	MISTRON PE	STELLAR 210	VERTAL 1000
	IMPERIAL SML	MISTRON MIST	STELLAR 310	VERTAL 1600
		MISTRON EG	STELLAR 410	VERTAL C-2 PLUS
		MISTRON RCS	STELLAR 420	VERTAL C-O PLUS
		MISTRON 755	STELLAR 510	VERTAL C-O PLUS DENSE
		MISTRON ZSC	STELLAR 510F	VANTALC 6H
		MISTRON ZSC DENSIF.		XF 700 (EXPERIMENTAL)

COMPONENTS

MAJOR COMPONENT: Talc, CAS #14807-96-6

CONCENTRATION: ~97-100%

MINOR COMPONENTS: Talc is a naturally occurring mineral which may, depending on the product, contain varying minor amounts of the following non-talc minerals:

Dolomite, CAS #16389-88-1

CONCENTRATION: ~0-3%

Magnesite, CAS #546-93-0

~0-3%

OSHA & ACGIH AIR BORNE DUST EXPOSURE LIMITS

TALC: 5 mg/m³ OSHA TWA (resp. dust) and 2 mg/m³ ACGIH TWA (resp. dust)DOLOMITE, MAGNESITE: 10 mg/m³ ACGIH TWA (total dust)

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TOXICITY

TOXICITY DATA: Tumorigenic data (RTECS).

CARCINOGEN STATUS: Human inadequate evidence, animal inadequate evidence (IARC Group 3).

HEALTH EFFECTS AND FIRST AID

→ INHALATION

ACUTE EXPOSURE: Exposure to a large concentration of air-born dust of this material may cause mechanical irritation of the mucous membranes and respiratory tract.

CHRONIC EXPOSURE: Repeated or prolonged inhalation of air-born dust of this material may cause scarring of the lungs (pulmonary fibrosis), with shortness of breath, chronic cough, and respiratory assisted heart failure. Prolonged exposure to talc can produce a mild symptomatic pneumoconiosis.

FIRST AID: Remove from exposure area to fresh air. If breathing has stopped, perform artificial respiration and get medical attention immediately. Keep person warm and at rest. Treat symptomatically and supportively. Group 02a

→ SKIN CONTACT

ACUTE EXPOSURE: Direct contact may cause dryness, or may cause mild irritation if an allergic predisposition exists.

CHRONIC EXPOSURE: Prolonged contact may cause dryness of the skin, or may cause mild irritation if an allergic predisposition exists.

FIRST AID: Apply common skin moisturizers to relieve dryness. Irritations are uncommon; however, if irritation or redness develops, seek medical attention. Broken skin can be cleansed with mild soap and water.

→ EYE CONTACT

ACUTE EXPOSURE: Direct contact with dust may cause mechanical irritation of the eyes.

CHRONIC EXPOSURE: Repeated exposure may cause conjunctivae inflammation.

FIRST AID: Wash eyes with large amounts of water or normal saline solution. If irritation or redness develops, seek medical attention.

→ INGESTION

ACUTE EXPOSURE: This material is considered to be harmless and inert when ingested.

CHRONIC EXPOSURE: Repeated ingestion of large doses of talc for 13 and 10 successive days by rabbits and mice, revealed negative teratogenic and carcinogenic results.

FIRST AID: Treat symptomatically and supportively. If vomiting occurs, keep head lower than hips to prevent aspiration.

FIRE, EXPLOSION & REACTIVITY SECTION

FIRE AND EXPLOSION HAZARD: None

FIRE FIGHTING MEDIA: None

FLASH POINT: None

REACTIVITY: Stable

INCOMPATIBILITIES: None

DECOMPOSITION: None hazardous

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PHYSICAL DATA
DESCRIPTION: Slight earthy odor, white to grayish-white, fine powder.

SPECIFIC GRAVITY: 2.7-2.8

DECOMPOSITION TEMPERATURE: 1652°-1832°F (900°-1000°C)

LOI @ 1000°C: 4.8 - 9.0%

SOLUBILITY IN WATER: Insoluble

pH: Slightly alkaline

HARDNESS: 1.0-1.5 MOHS

OTHER SOLVENTS: Soluble in concentrated, hot phosphoric acid; Insoluble in cold acids and alkalis.

STORAGE, DISPOSAL & ENVIRONMENTAL
STORAGE: Preserve in sealed containers to prevent dispersion of dust in air.

WASTE DISPOSAL: Dry material can be landfilled. Observe all federal, state and local regulations.

CONDITIONS TO AVOID: Prevent dispersion of dust in air.

ACCIDENTAL SPILLS: For large spills, shovel or sweep up (while keeping dispersion of dust in air to a minimum) and place into suitable sealed containers for reclamation or later disposal. Residue should be cleaned up using a high-efficiency particulate filter vacuum. The use of water washdown is not recommended. Wet material can cause a surface used for walking to become extremely slippery.

SECTION 313 SUPPLIER NOTIFICATION: This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

RCRA: Talc is not considered a hazardous waste by RCRA criteria (40 CFR 261). Observe all federal, state and local regulations when storing or disposing of this substance. For assistance, contact the district director of the Environmental Protection Agency.

PROTECTIVE EQUIPMENT
VENTILATION: Provide local exhaust or process enclosure ventilation to meet published exposure limits.

RESPIRATOR: The following maximum-use concentrations and respirators are recommendations by the U.S. Department of Health and Human Services; NIOSH Pocket Guide to Chemical Hazards; NIOSH criteria documents; or by the U.S. Department of Labor, 29 CFR 1910 subpart Z.

Max. Use Concentration
Respirator

 10 mg/m³ Any dust and mist respirator.

 20 mg/m³ Any dust and mist respirator except single-use and quarter-mask respirators.

GLOVES: Protective gloves are not required, but may be worn to prevent skin dryness or irritation due to skin allergy.

EYE PROTECTION: Employees should wear dust-resistant safety goggles to prevent eye contact with high concentrations of air-borne dust of this substance. Where there is a possibility that an employee's eyes may be exposed to bulk quantities or high concentrations of air-borne dust of this substance, the employer should provide an eye wash fountain within the immediate work area for emergency use.

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ADDITIONAL INFORMATION

NPCA: National Paint and Coatings Association - Hazardous Material Identification System (HMIS)

HEALTH HAZARD: 1-slight

FLAMMABILITY HAZARD: 0-minimal

REACTIVITY HAZARD: 0-minimal

PERSONAL PROTECTION: E-glasses, gloves, dust respirator

CERCLA RATINGS (Scale 0-3): Health = 0, Fire = 0, Reactivity = 0, Persistence = 3

NFPA RATINGS (Scale 0-4): Health = 0, Fire = 0, Reactivity = 0

DOT CLASS: This substance is not regulated as hazardous material by DOT.

EPA TSCA STATUS: All ingredients are included on the TSCA Inventory of Chemical Substances.

CEPA DSL STATUS: All ingredients are included on the Canadian Domestic Substance List.

ACGIH CARCINOGENICITY DESIGNATION: A4 - Not classifiable as a human carcinogen.

FDA STATUS: All products are approved for use in polymeric and cellulosic compounds intended for food contact applications.

EUROPEAN EINECS STATUS: All ingredients are listed. The EINECS number for talc is 238-877-9.

CALIFORNIA PROP 65 STATUS: Talc, and its natural components, pose "no significant risk" as defined by the California Proposition 65 Clean Water Regulations.

NEW JERSEY RTK: Talc, p.119.

NTP STATUS: A two year NTP Inhalation study on rats and mice reported some evidence of carcinogenicity in male rats, clear evidence of carcinogenicity in female rats, and no evidence of carcinogenicity in male and female mice. At an FDA/IS RTP Talc Workshop held at the NIH on January 31 and February 1, 1994, medical experts concluded that the observed tumors were probably a result of a lung overburden situation caused by the very high talc exposure levels employed in the study. No carcinogenicity was observed in any of the rodents at lower levels. It is not anticipated that this study will result in the listing of talc as a possible carcinogen. An executive summary of the FDA/IS RTP workshop appears in the April, 1995 issue, Volume 21, Number 2, of *The Journal of Regulatory Toxicology and Pharmacology*.

ASBESTOS CERTIFICATION: These products do not contain asbestos or asbestiform minerals.

DISCLAIMER

The information contained herein is based on data available to Luzenac America and is believed to be correct. However, Luzenac America makes no warranty, expressed or implied, regarding the accuracy or completeness of this information or the results to be obtained from the use thereof.

ISSUED BY: Richard J. Zazenski
Director Product Safety & Quality Assurance
Luzenac America, Inc.
Phone: 1-303-643-0404
Fax: 1-303-799-8926

END OF MSDS GROUP 02a