



WHITTAKER, CLARK & DANIELS, INC.

A BRENHAG Company

MINERALS, COLORS, CHEMICALS

MATERIAL SAFETY DATA SHEET

ORDER# 520656

SUBSTANCE: TALC

MANUFACTURER: LUZENAC AMERICA, INC.
9090 EAST NICHOLS AVENUE
ENGLEWOOD, CO. 80112
1-800-325-0299
1-303-643-0400

FOR MEDICAL EMERGENCY INFORMATION
CONTACT: 1-303-623-5716 (24 HR.)
ROCKY MOUNTAIN POISON CONTROL CENTER

DISTRIBUTOR: WHITTAKER, CLARK & DANIELS, INC.
1000 COOLIDGE STREET
SOUTH PLAINFIELD, N.J. 07080
1-908-561-6100

SECTION I - SUBSTANCE INFORMATION

SUBSTANCE: TALC
SYNONYMS: TALCUM, SOAPSTONE, STEATITE
CHEMICAL FAMILY: SILICATE
MOLECULAR FORMULA: $3MgO \cdot 4SiO_2 \cdot H_2O$
RTEC NUMBER: W2710000
PRODUCT NAMES:

ACT II 200 USP
ACT II 400 USP
ALPHA FIL 400 USP
ALPHA FIL 500 USP
ALTALC 200 USP
ALTALC 200V USP
ALTALC 300 USP
ALTALC 300 V USP
ALTALC 325 USP
ALTALC 400 USP
ALTALC 400V USP
ALTALC 500 USP
ALTALC 500 V USP
BRILLANTE
BRILLANTE 150
BRILLANTE 400
TALC J
CIMFLX 606

DOVER 50A
STERILINE 320V
STERILINE 400
SUPRA A
SUPRA AA
SUPRA H
SUPRA EF A
SUPRAFINO A
SUPRAFINO H
TOPNOTE 200
OLYMPIC H
ULTRAFINO
SUPREME H
IMPERIAL 200 USP
IMPERIAL 250
SUPRA A SM
IMPERIAL 400 USP

SECTION II - COMPONENTS

MAJOR COMPONENT: TALC, CAS NUMBER - 14807-96-6

CONCENTRATION: 97 to 100% (approx.)

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 NUMBER - 16389-88-1
CHLORITE, CAS NUMBER - 1310-59-8
CALCITE, CAS NUMBER - 13397-26-7
MAGNESITE, CAS NUMBER - 546-93-0

CONCENTRATION: 0 to 3% (approx.)
0 to 3% (approx.)
0 to 3% (approx.)
0 to 3% (approx.)

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SECTION III - OSHA & ACGIH AIR BORNE DUST EXPOSURE LIMITS

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

SECTION IV - TOXICITY

TOXICITY DATA: TUMORGENIC DATA (RTECS).
CARCINOGEN STATUS: HUMAN INADEQUATE EVIDENCE, ANIMAL INADEQUATE EVIDENCE (IARC GROUP 3).

SECTION V - HEALTH EFFECTS & FIRST AID

INHALATION: ACUTE EXPOSURE - EXPOSURE TO A LARGE CONCENTRATION OF AIR-BORNE DUST OF THIS MATERIAL MAY CAUSE MECHANICAL IRRITATION OF THE MUCOUS MEMBRANES AND RESPIRATORY TRACT.
CHRONIC EXPOSURE - REPEATED OR PROLONGED INHALATION OF AIR-BORNE 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.

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.

SECTION VI - FIRE, EXPLOSION & REACTIVITY

FIRE AND EXPLOSION HAZARDS: NONE

FIRE FIGHTING MEDIA: NONE

FLASH POINT: NONE

REACTIVITY: STABLE

INCOMPATIBILITIES: NONE

DECOMPOSITION: NONE HAZARDOUS.

SECTION VII - PHYSICAL DATA

DESCRIPTION: SLIGHT EARTHY ODOR, WHITE TO GRAYISH-WHITE, FINE POWDER.



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SPECIFIC GRAVITY: 2.7 to 2.8
DECOMPOSITION TEMPERATURE: 1652 to 1832 °F (900 to 1000 °C)
LOSS ON IGNITION (1000 °C): 4.8 to 9.0%
SOLUBILITY IN WATER: INSOLUBLE
pH: SLIGHTLY ALKALINE
HARDNESS: 1.0 to 1.5 MOHS
OTHER SOLVENTS: SOLUBLE IN CONCENTRATED, HOT PHOSPHORIC ACID; INSOLUBLE IN COLD ACIDS AND ALKALIS.

SECTION VIII - 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. RESPONSIBILITY FOR PROPER WASTE DISPOSAL IS WITH THE OWNER OF THE WASTE.
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 40CFR372.
RCRA: TALC IS NOT CONSIDERED A HAZARDOUS WASTE BY RCRA CRITERIA (40CFR261). 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.

SECTION IX - 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, 29CFR1910 SUBPART Z.

MAXIMUM USE CONCENTRATION
10 mg/cu.m.
20 mg/cu.m.

RESPIRATOR
ANY DUST AND MIST RESPIRATOR
ANY DUST AND MIST RESPIRATOR EXCEPT SINGLE-USE AND QUARTER-MASK RESPIRATORS.

CLOTHING: PROTECTIVE CLOTHING IS NOT REQUIRED.
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.

SECTION X - ADDITIONAL INFORMATION

NPCA: NATIONAL PAINT AND COATINGS ASSOCIATION - HAZARDOUS MATERIALS 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

RTEC NUMBER: W2710000

NFPA RATINGS (SCALE 0-4): HEALTH = 0, FIRE = 0, REACTIVITY = 0

DOT CLASS: NOT REGULATED AS A HAZARDOUS MATERIAL BY DOT.

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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 CLASSIFIED AS A HUMAN CARCINOGEN.

FOA 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 PROPOSITION 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/ISRTT 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/ISRTT 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.

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DATE: SEPT. 1, 1999
(SUPERCEDES: MARCH 1, 1999)



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ANALYTICAL REPORT

ORDER# 520666

PRODUCT 3441V ALTALC 300V USP BC (*1844)
LOT W990510-8 TESTED 08/31/99

THIS MATERIAL CONFORMS TO THE SPECIFICATIONS FOR TALC IN THE U.S.
PHARMACOPEIA AND SUPPLEMENTS IN EFFECT AS OF THE ABOVE DATE.

DESCRIPTION	MEETS USP	PASSES TEST
IDENTIFICATION	MEETS USP	PASSES TEST
LOSS ON IGNITION	MAXIMUM 6.5%	005.0000
ACID SOLUBLE SUBSTANCES	MAXIMUM 2.0%	000.9600
REACTION & SOLUBLE SUBSTANCES	MAXIMUM 0.1%	000.0400
WATER SOLUBLE IRON	NO BLUE COLOR	PASSES TEST
ARSENIC	MAXIMUM 3 ppm	LESS THAN 3 ppm
LEAD	MAXIMUM 10 ppm	LESS THAN 10 ppm
HEAVY METALS	MAXIMUM 40 ppm	LESS THAN 40 ppm
MICROBIAL LIMITS	MAXIMUM 500 c.f.u.	MEETS REQUIREMENTS

Manufactured By: Luzenac America

F. McGonigle

F. MCGONIGLE
TECHNICAL SERVICE MANAGER
WHITTAKER, CLARK & DANIELS, INC.