

Material Safety Data Sheet

TALC

Product(s): All Raw, Milled and Blended

1. PRODUCT IDENTIFICATION

Common Name: Talc

REACH Registration Number: Exempted in accordance with Annex V.7

Trade Names:

C Series:	C-88, C-92, C-98, C-300, CB-2773, CB-4060
D series:	400-D, 600-D
G series:	GP-L
H series:	200-HB, 400-HB, 500-HB, 600-HB
L series:	200-LB, 400-LB, 500-LB, 600-LB, 9400-LB
M series:	200-MB, 400-MB, 500-MB, 600-MB
T series:	TDM-W325
Crude Ore:	PIO3

Recommended Use: This product is used as a functional mineral in the production process of the ceramics, plastics, paint, coatings, rubber, asphalt and other industries.

This document has been prepared in accordance with the Occupational Safety and Health Administration (OSHA) Hazard Communication standard, 29 Code of Federal Regulations (CFR) 1910.1200(g), Safety Data Sheets.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Talc and Dolomite

Classification (EC 1272/2008):
 Physical and chemical hazards: not classified
 Human health: Carcinogen
 Environment: not classified

Quartz (0 - 3.5%)

GHS-US classification
 Acute Tox. 4 H332
 STOT SE 3 H335
 STOT RE 1 H372

Classification (67/548/EEC): Not classified
 This product should be handled with care to avoid generating dust.

Label Elements

Label element in accordance with Regulation (EC) No1272/2008
 Emergency Overview: Danger! Lung injury and Cancer Hazard
 Hazard statements:



H350 - May cause CANCER (inhalation)

H371 – May cause damage to respiratory system through prolonged or repeated exposure

P260 – Do not breathe dust

P284 – Wear respiratory protection

Other Hazards:

This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product does not contain detectable amounts of asbestos fibers as defined by the US Occupational Safety and Health Administration (OSHA) and the European Directive 83/477/EEC when analyzed by conventional methods. This statement is based on verification by certified independent laboratories using Polarized Light Microscopy (PLM).

Composition/Information on Ingredients

Mineral Name	CAS# / EINECS#	% Wt/Wt	Classification (GHS- US)
Talc (Magnesium Silicate)	CAS: 14807-96-6 EINECS: 238-877-9	50-100	No classification
Dolomite (Magnesium Calcium Carbonate)	CAS: 16389-88-1 EINECS: 240-440-2	0-30	No classification
Quartz	CAS: 14808-60-7 EINECS: 238-878-4	0-3.5	Carc. A1, H350 STOT SE 3, H335

Impurities: This product is considered single ingredient

4. FIRST AID MEASURES

Eyes:	Eye Contact: As with most dust or particulate materials, talc can cause temporary discomfort and irritation if accidentally introduced into the eye. Flush the affected eye(s) with clean water or saline rinse while holding the eyelids open; if irritation or redness develops, seek medical attention.
Skin:	Skin Contact: Wash with soap and water and apply a moisturizing lotion. Broken skin can be cleansed with mild soap and water; if irritation or redness develops and persists, seek medical attention.
Ingestion:	No
Inhalation:	If irritation of nose or throat develops, move away from the source of exposure and to fresh air; if irritation persists or breathing difficulties develop seek immediate medical attention.
Ingestion:	No treatment necessary.

Most important symptoms and effects, both acute and delayed

Inhalation: Symptoms of acute accidental exposure are non-specific and similar to the inhalation of any dust that is not toxic. Such symptoms may include coughing, wheezing, difficulty breathing and upper respiratory tract irritation. Long-term excessive exposures may lead to severe and permanent damage to the lungs.

WARNING: This product contains crystalline silica. Long-term overexposure to crystalline silica may lead to the development of silicosis and/or cardiopulmonary impairment.

Skin Contact: Prolonged direct exposure can cause drying of skin, but no adverse effects are known as a consequence of an application to unbroken skin.

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

Indication of any immediate medical attention and special treatment needed

No specific actions are required.

5. FIRE-FIGHTING MEASURES AND INFORMATION

Fire Extinguishing Media: This product is not flammable. Use fire extinguishing media appropriate for surrounding

Special Hazards: Hazardous combustion products: none under normal conditions

Advice for firefighters: Special firefighting procedures: no specific procedures given

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Avoid creating excessive dust. Follow precautions for safe handling described in this safety data sheet.

Environmental precautions

No special requirements.

Methods and material for containment and cleaning up

Provide adequate ventilation. If the product is clean and dry, shovel, vacuum or sweep up and return to container for use or disposal. Use caution on a wet floor, as it may be slippery.

Reference to other sections

For personal protection see section 8. For waste disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Talc, like all fine powders, can create dust when handled. Keep all floors, workstations, stairs and handrails clean and dry. Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In the case of insufficient ventilation, wear suitable respiratory protective equipment.

Conditions for safe storage, including any incompatibilities

Use all available work practices to control dust exposure. Keep airborne dust concentrations below permissible exposure limits. Practice good housekeeping. Do not allow dust to collect.

Specific end use(s)

If you require advice on specific uses, please contact your supplier.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

Follow workplace regulatory exposure limits for all types of airborne dust. For the national regulations about the Occupational Exposure Limit (OEL) of talc powder see section 15.

Exposure Controls:

Appropriate engineering controls:

Minimize airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below permissible exposure limits. If user operations generate dust, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organizational/administrative measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

Individual protection measures, such as personal protective equipment:

Eye protection:

Wear safety glasses with side-shields in circumstances where there is a risk of dust generation that could lead to mechanical irritation of the eye.

Skin protection: No specific

No specific requirement. For hands, see below.

Hand protection

Protective gloves are not necessary, but recommended for those prone to skin irritation or dryness.

Respiratory protection:

Use of a properly fitted NIOSH/MSHA approved particulate respirator is recommended when prolonged exposure to airborne dust concentrations, wear respiratory protective equipment that complies with the requirements of national legislation.

Note: Personal protection information in this Section 8 is based on general information for normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the assistance of an industrial hygienist or other qualified environmental professional be obtained.

Environmental exposure controls

Use all available work practices to control dust exposure. Practice good housekeeping. Do not allow excessive amounts dust to collect on surfaces, which could become airborne and cause potential exposure risks.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder or rock
Color:	POWDERS: Dark Gray (almost black) to white ROCKS: All colors including black to white
Odor:	Earthy
Odor threshold:	Not Relevant
pH	~9
Melting Point/Freezing point:	>1300 °C
Flammability (solid, gas):	Nonflammable
Upper/lower flammability or explosive limits:	Not explosive. Limits do apply.
Relative density:	2.5 - 2.8 g/cm ³
Solubility:	
Solubility in Water:	Negligible
Solubility in hydrofluoric acid:	Yes
Auto-ignition temperature:	Not applicable
Decomposition temperature:	>950 °C
Explosive properties:	Not explosive
Oxidizing properties:	Not oxidizing
Other information:	No other information

10. STABILITY AND REACTIVITY

Reactivity	Inert, not reactive
Chemical stability:	Chemically stable
Possibility of hazardous reactions:	No hazardous reactions
Condituons to avoid:	None
Incompatible materials:	None known
Hazardous Decomposition Products:	None

11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Information on toxicological effects Information and the likely routes of exposure:

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the GHIS, HMIS, and NFPA labels. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:

No adverse effects expected, however, large amounts may cause nausea and vomiting.

Eye Contact

May be an eye irritant. Exposure to the dust may cause discomfort due to particulate matter abrasion. Eye contact may cause physical irritation to the eyes.

Skin Contact

Contact with skin may result in irritation. Repeated exposure may cause skin dryness or cracking.

Inhalation

Breathing dust may result in respiratory irritation. Long-term exposure to silica dust may also result in the development of silicosis (see below).

Talc (14807-96-6) ACGIH:

A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers).

Quartz

A1 - Human Carcinogen NIOSH: potential occupational carcinogen NTP: Known Carcinogen (Select Carcinogen) IARC: Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources) (Group 1 (carcinogenic to humans))

11. TOXICOLOGICAL INFORMATION

(Continued) Acute Effects

Acute effects such as eye irritation may occur if associated with high dust operations such as grinding, milling and/or cleaning with compressed air (which such cleaning should be avoided). In very rare cases, symptoms of acute silicosis, a form of silicosis (a nodular pulmonary fibrosis associated with exposure to respirable crystalline silica) may develop following acute exposure to extremely dusty environments caused by the generation of dust containing silica. Signs such as labored breathing and early fatigue may indicate silicosis; however, these same symptoms can arise from many other causes.

Chronic Effects

Long-term, continual exposure to respirable crystalline silica at or above established permissible occupational exposure limits may lead to the development of silicosis, a nodular pulmonary fibrosis (NPF). This type of chronic exposure to silica dust may also result in the development of autoimmune disorders, chronic renal disease, and other adverse health effects. Recent epidemiologic studies demonstrate that workers exposed to elevated silica concentrations have a significant risk of developing chronic silicosis. Signs such as labored breathing and early fatigue may indicate silicosis; however, these same symptoms can also arise from many other physical and environmental causes.

Inhalation and potential exposure to eyes, hands, or other body parts if contact is made with talc, and/or during grinding, and/or cleaning up respirable size particles of talc (less than 10 microns). The toxicity of crystalline silica is directly proportional to the ability of any particle to reach the lower respiratory tract. Particles with an aerodynamic diameter below 10 microns are likely to be most harmful to humans, as they reach the lower respiratory tract and are less readily removed by the lungs.

12. ECOLOGICAL INFORMATION

Toxicity To The Environment

No data are available on talc.
 No specific adverse effect known for talc.

Persistence and degradability

No data are available on this product.
 Product is an inorganic substance and therefore is not considered biodegradable.

Bioaccumulative potential

Not Relevant

Mobility in soil

Negligible

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products:

Talc is not hazardous waste; dispose of in accordance with local, state and federal regulations.

Waste from packaging:

Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles. The re-use of packaging is not recommended. Recycling and disposal of packaging should be carried out in compliance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

UN number Not relevant

UN proper shipping name Not relevant

Transport hazard class(es)

RID/ADR (Int'l. Regulation for Transport of Dangerous Products)	NOT LISTED
DOT (Department of Transportation Classification)	NOT HAZARDOUS
DOT (Department of Transportation Proper Shipping Name)	NOT REGULATED
BC Code (Code of Safe Practice for Solid Bulk Cargos)	NOT HAZARDOUS
IMGD (Int'l Code for Dangerous Products)	NOT HAZARDOUS
UN (Classification for Dangerous Products)	NOT LISTED

Packing Group Not relevant

Environmental hazards Not relevant

Special precautions for user Not relevant

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislations specific for the substance or mixture

National legislation/requirements:

Occupational Exposure Limits (OEL) for talc powder:

US: 2 mg/m³

Mexico: 2 mg/m³

International legislation/requirements:

Industrial Safety and Health Law: This product does not contain harmful or controlled hazardous substances under ISHL. This product may contain crystalline silica, requiring workplace exposure monitoring.

Toxic Chemical Control Act: This product does not contain chemical substances regulated as toxic, observational, restricted or banned under TCCA.

Dangerous Substance Management Law: This product does not contain chemical substances regulated under DSML.

Waste Management Law: Ensure to dispose of in accordance with Federal, State and local laws.

Other regulations based on domestic or foreign laws:

The publicly available portions of following inventories have been investigated:

SARA 313 Components

This talc contains <1 percent by weight each of the following elements, which are SARA 313 Recordable: Arsenic, Barium, Beryllium, Cadmium, Cobalt, Chromium, Copper, Manganese, Mercury, Nickel, Lead, Silver, Thallium, Tin, Titanium, Vanadium, and Zinc.

SARA 311/312

Acute Health Hazard, Chronic Health Hazard Under the State’s Right to Know Act, Quartz (Crystalline Silica) CAS #14808-60-7, may appear on an individual State’s hazardous substance list. Please consult the individual State guidelines for proper handling.

California Proposition 65

WARNING! This Product contains a chemical (crystalline silica) known to the state of California to cause cancer.

WARNING! This Product contains chemicals (arsenic) known to the state of California to be a reproductive toxin.

NOTE: Silica, Arsenic and other substances listed by the State of California are present solely because they are naturally occurring trace elements in the Talc as mined.

Chemical Safety Assessment

This material is exempted from REACH Registration in accordance with Annex V.7. This material is a naturally occurring substance not chemically modified.

16. ADDITIONAL INFORMATION

Global Harmonization Identification System

GHIS: Health: 3 Fire: 4 Reactivity: 4

Hazardous Material Identification System

HMIS: Health: 0 Fire: 0 Reactivity: 0

National Fire Protection Association

NFPA: Health: 0 Fire: 0 Reactivity: 0

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