

# TRIANGLE CHEMICAL COMPANY



44 Hillcrest Dr., Chickasha, OK 73018, Phone 405-224-4933

## Technical Data Sheet

### RP 9400 Series Talc

RP 9400 Series talcs are produced from ores, which provide an excellent balance of mechanical properties at an economical price, for use in commodity polypropylene. RP 9400 Series talcs are platy, hydrophobic, non-abrasive and chemically inert.

9400 Series talcs industrial applications include: thermoplastics, thermosets, adhesives/mastics and rubber dusting.

Product Description/Typical Values	RP 9405	RP 9410
Median particle size microns	6.5	9.0
Micrometries Sedigraph 5100		
@ 98% (microns)	26	35
@ 10% (microns)	5	1
Dry brightness		
Hunter Rd value	85	85
Oil absorption g/100g		
ASTM D281	26	24
Bulk density		
Loose lbs/ft <sup>3</sup>	24	31
Tapped lbs/ft <sup>3</sup>	68	70
Retained % on 325 mesh screen	0.2%	2.0%
Specific gravity	2.78	2.78
Moisture %	0.3	0.3
pH	9.2	9.2

### Typical Chemical Analysis

Silicon dioxide SiO <sub>2</sub>	46%
Magnesium oxide MgO	24%
Calcium oxide CaO	14%
Aluminum oxide Al <sub>2</sub> O <sub>3</sub>	<1%
Iron as Fe <sub>2</sub> O <sub>3</sub>	<1%
Loss on ignition	17%

All products are sold on the understanding that the user is solely responsible for determining their suitability for the intended use. All information given and recommendations made herein are based upon our research and are believed to be accurate, but no guarantee, either expressed or implied, is made with respect thereto or with respect to the infringement of any patent.

# TRIANGLE CHEMICAL COMPANY



44 Hillcrest Dr., Chickasha, OK 73018, Phone 405-234-4933

## Material Safety Data Sheet

### Talc and Calcium Carbonate blend

Synonyms: RP9305, RP9310, RP9405, RP9410

### Chemical Product

Chemical name: Magnesium Silicate Hydrate and Calcium Carbonate

Product use: mineral additive

### Composition / Information on Ingredients

CAS#	Component	Percent (wt/wt)
14807-96-6	Talc	60-100
1317-65-3	Calcium Carbonate	10-30
1318-59-8	Chlorite-group minerals	1-5
14808-60-7	Quartz	0.1-1.0

Component related regulatory information

This product may be regulated, have exposure limits or other information identified as the following; Silica, crystalline (general form)

Component information

This product is considered hazardous under 29 CFR 1910.1200 (hazard communication)

### Hazards Identification

Emergency overview- this product is irritating to eyes, respiratory system and skin

Potential health effects- Eyes: dust or powder may irritate eye tissue

Potential health effects- skin: dust or powder may irritate the skin

Potential health effects- ingestion: may cause temporary irritation of the throat, stomach, and gastrointestinal tract

Potential health effects- inhalation: long-term excessive exposures may cause talcosis, a pulmonary fibrosis, which in turn may lead to severe and permanent damage to the lungs. Warning: this product contains crystalline silica. Long term overexposure to crystalline silica causes silicosis, a form of pulmonary fibrosis. Continued overexposure to silica can lead to cardiopulmonary impairment. Crystalline silica has been reviewed by IARC. IARC found sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources.

Medical conditions aggravated by exposure- no information for the product

Potential environmental effects- no significant environmental effects

HMIS ratings: Health 1\* Fire 0 Reactivity 0 Personal protection E

Scale 0 = minimal 1= slight 2= moderate 3= serious 4= severe \*= chronic hazard

**First Aid Measures**

First aid- eyes: in case of contact with eyes, rinse with plenty of water and seek medical advice  
 First aid- skin: for skin contact wash immediately with soap and water  
 First aid- ingestion: product is not considered toxic in small amounts  
 First aid- inhalation: move person to non-contaminated air  
 First aid- notes to physician: provide general supportive measures and treat symptomatically

**Fire Fighting Measures**

General fire hazards- this material will not burn  
 Hazardous combustion products- none identified  
 Extinguishing media- use methods for the surrounding fire  
 Firefighting equipment/instructions- none necessary  
 NFPA ratings Health 1 Fire 0 Reactivity 0  
 Scale 0= minimal 1= slight 2= moderate 3= serious 4= severe

**Accidental Release Measures**

Containment procedures- contain the discharged material  
 Clean up procedures- provide adequate ventilation. Cleanup personnel should use personal protective equipment to reduce eye contact, inhalation of dust, and prolonged skin contact. Use vacuum equipment with HEPA filters or wet sweeping/dust suppressant if sweeping is required. Personal safety, handling and exposure recommendations described elsewhere in this data sheet apply to exposure during cleanup of spilled material and must be followed.  
 Evacuation procedures- none necessary  
 Special procedures- no additional information available

**Handling and Storage**

Handling procedures- avoid getting this material into contact with your skin and eyes  
 Storage procedures- store in a cool, dry, well-ventilated area

**Exposure Controls/ Personal Protection**

Exposure guidelines- A: general product information- keep formation of airborne dusts to a minimum, B: component exposure limits- talc 14807-96-6 ACGIH 2mg/m3 TWA (respirable fraction, particulate matter containing no asbestos and <1% crystalline silica); OSHA 2mg/m3 TWA (respirable dust, less than 1% crystalline silica); NIOSH 2mg/m3 TWA (respirable dust, containing no asbestos and less than 1% quartz calcium carbonate 1317-65-3 OSHA 15 mg/m3 TWA (total dust); 5mg/m3 TWA (respirable fraction); NIOSH 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust) quartz 14808-60-7 ACGIH 0.025 mg/m3 TWA (respirable fraction) OSHA 0.1 mg/m3 TWA (respirable dust) NIOSH 0.05 mg/m3 TWA (respirable dust).  
 Engineering controls- provide adequate local exhaust ventilation to maintain worker exposure below exposure limits  
 Personal protective equipment- eyes/face : wear dust goggles  
 Personal protective equipment- skin: use impervious gloves  
 Personal protective equipment- respiratory: use a dust mask for particulate concentrations exceeding the occupational exposure limit  
 Personal protective equipment- general: eye wash fountain and emergency showers are recommended

**Physical and Chemical Properties**

Appearance	white powder	Odor	none
Physical state	solid	pH	n/a
Vapor pressure	n/a	Vapor density	n/a
Boiling point	n/a	Melting point	unknown
Solubility H2O	insoluble	Specific gravity	2.8

Component	CAS	CA	FL	MA	MIN - NJ	PA	MI
Talc	14807-96-6	y	n	y	y	y	n
Calcium carbonate	1317-65-3	n	n	y	y	n	n
Quartz	14808-60-7	n	n	y	y	y	n

The following statements are provided under the California safe drinking water and toxic enforcement act of 1986 (proposition 65): warning this product contains a chemical known to the state of California to cause cancer.

Other regulations- A: general product information- Canadian WHMIS classification: class D, division 2, subdivision A; B: component analysis- inventory

Component	CAS	TSCA	DSL	NDSL	ENECS	AUST	PHIL	MITI	Korea	ELNCS	China
Talc	14807-96-6	y	y	n	y	y	y	n	y	y	y
Calcium carb.	1317-65-3	y	n	y	y	y	y	n	y	n	y
Chlorite group	1318-59-8	n	n	n	y	n	y	n	y	n	y
Quartz	14808-60-7	y	y	n	y	y	y	y	y	n	y

Component analysis -- WHMIS IDL

Component	CAS	Present
Quartz	14808-60-7	y

**Stability and Reactivity**

Chemical stability- stable under normal conditions  
Chemical stability- conditions to avoid: none  
Incompatibility- none identified  
Hazardous decomposition- none identified  
Hazardous polymerization- will not occur

**Toxicological Information****Acute and chronic toxicity**

A: general product information- no information available for the product

B: component analysis - LD50/LC50

Quartz 14808-60-7 oral LD50 rat- 500 mg/kg

**Carcinogenicity**

A: general product information- not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

B: component carcinogenicity

Talc 14807-96-6 ACGIH A4- not classifiable as a human carcinogen containing no asbestos fibers; A1 confirmed human carcinogen (containing asbestos fibers) IARC monograph 93 [in preparation](inhaled), supplement 7 [1987], monograph 42 [1987] (group 3(not classifiable)); quartz 14808-60-7 ACGIH A2- suspected human carcinogen NIOSH potential occupational carcinogen NTP known human 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))

**Ecological Information**

Ecotoxicity A: general product information- this material is not expected to be harmful to aquatic life

B: component analysis - ecotoxicity- aquatic toxicity talc 14807-96-6 96 hr LC50 brachydanio rerio: >100 g/l [semi-static]

Environmental fate- this material shows no bioaccumulation or food chain concentration toxicity potential

**Disposal Considerations**

US EPA waste number and descriptions

A: general product information- no components are identified as hazardous wastes B: component waste numbers - no EPA waste numbers are applicable for this product's components

Disposal instructions- if this material becomes a waste it does not meet the criteria of a hazardous waste as defined by USEPA RCRA regulations. More stringent state or local regulations may apply. Combining this material with another may alter this classification

**Transport Information**

US DOT information- shipping name: none necessary

Additional information- none

International transportation regulations- this product is not regulated as a hazardous material by the United States (DOT) or Canadian (TDG) transportation regulations

**Regulatory Information**

US Federal regulations- A: general product information- all naturally occurring components of this product are automatically included in the USEPA TSCA inventory list per 40 CFR 710.4 (b). All other components are on the USEPA TSCA inventory list B: component analysis- none of this products components are listed under SARA section 302 (40 CFR 355 Appendix A), SARA section 313 (40 CFR 372. 65), or CERCLA (40 CFR 302.4) acute health: yes chronic health: yes fire: no pressure: no reactive: no  
State regulations A: general product information- other state regulations may apply, check individual state requirements B: component analysis- state : the following components appear on one or more of the following state hazardous substances lists: