

SECTION 1: Identification**1.1. Identification**

Product form : Mixture
Product name : U.S.P. TALC
Product code : C-MS-AT-2048USPTALC
Other means of identification : MICROTALC® MP 15-38 USP, MICROTALC® MP 2500 USP, MICROTALC® MP 50-30 USP,
MICROTALC® MP 60-30 USP, MICROTALC® MP 39-38 USP

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Mineral additive

1.3. Supplier

Barretts Minerals Inc.
8625 Highway 91 South
Dillon, MT 59725
USA
Telephone: 406-683-3323

1.4. Emergency telephone number

Emergency number : +1 760 476 3962
3E Global Emergency Response Services. Access code: 333336 (if you mention SDS name and company name-you don't need the access code)

SECTION 2: Hazard(s) identification**2.1. Classification of the substance or mixture****GHS US classification**

Carcinogenicity Category 1A H350 May cause cancer (Inhalation)
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements**GHS US labeling**

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger
Hazard statements (GHS US) : H350 - May cause cancer (Inhalation)
Precautionary statements (GHS US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves, protective clothing, eye protection.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to an authorized waste collection point.

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2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica. Dust may cause mechanical irritation of the eyes, skin and upper respiratory tract.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Talc	CAS-No.: 14807-96-6	90 - 95	Not classified
Chlorite-group minerals	CAS-No.: 1318-59-8	5 - 10	Not classified
Quartz	CAS-No.: 14808-60-7	0.1 - 0.5	Carc. 1A, H350 STOT SE 3, H335 STOT SE 1, H370

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop, obtain medical attention.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop, obtain medical attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop, obtain medical attention.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms develop, obtain medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Dust may cause mechanical irritation of the eyes, skin and upper respiratory tract.

Chronic symptoms : May cause cancer (if inhaled).

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Fire hazard : None known.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate area. Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes.
Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Where excessive dust may result, wear approved mask.

Emergency procedures : Ventilate area. Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes.
Wear independent breathing equipment.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak, if possible without risk.
Methods for cleaning up : Collect using vacuum cleaner fitted with HEPA filter. - OR - Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. Do not dry sweep dust. Store away from other materials.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide appropriate exhaust ventilation at places where dust is formed. Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in original container. Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store locked up.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Talc (14807-96-6)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Talc
ACGIH TWA (mg/m ³)	2 mg/m ³ (Containing no asbestos fibers. E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica, R - Respirable particulate matter) 2 mg/m ³ (Containing asbestos fibers. R - Respirable particulate matter)
ACGIH TWA (ppm)	0.1 fibers/cm ³ (Containing asbestos fibers. F - Respirable fibers)
Remark (ACGIH)	Containing no asbestos fibers = TLV® Basis: Pulm fibrosis; pulm func. Notations: A4 Containing asbestos fibers = TLV® Basis: Pneumoconiosis; lung cancer; mesothelioma. Notations: A1 (Confirmed Human Carcinogen)
Regulatory reference	ACGIH 2021
USA - OSHA - Occupational Exposure Limits	
Local name	Talc (not containing asbestos) (Silicates (less than 1% crystalline silica))
OSHA PEL (TWA) [2]	20 mppcf
Remark (OSHA)	Table Z-3. CAS No. source: eCFR Table Z-1.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts
Quartz (14808-60-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Silica crystalline - quartz
ACGIH TWA (mg/m ³)	0.025 mg/m ³ (R - Respirable particulate matter)
Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2021
USA - OSHA - Occupational Exposure Limits	
Local name	Quartz (Respirable) (Silica: Crystalline)
OSHA PEL (TWA) (mg/m ³)	0.05 mg/m ³ [Action level: 0.025 mg/m ³]
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA): Use formulas: (250 / (%SiO ₂ +5)) for mppcf and (10 mg/m ³ / (%SiO ₂ +2)) for mg/m ³ . CAS No. source: eCFR Table Z-1.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts

8.2. Appropriate engineering controls

Appropriate engineering controls	: Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded. Provide appropriate exhaust ventilation at places where dust is formed.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

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Hand protection:

Wear chemically resistant protective gloves. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Long-sleeved protective clothing

Respiratory protection:

Dust mask or respirator

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Color	: White.
Odor	: None
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not combustible.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 2.8
Solubility	: Insoluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not explosive.
Oxidizing properties	: Not oxidizing.

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Dust formation.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Talc (14807-96-6)

LD50 oral, rat	> 5000 mg/kg (OECD 423 method)
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Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer (Inhalation).

Talc (14807-96-6)

IARC group	Inhaled talc not containing asbestos or asbestiform fibers: 3 - Not classifiable Talc-based body powder for perineal dusting: 2B – Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Not listed by NTP, ACGIH, OSHA, or NIOSH

Quartz (14808-60-7)

IARC group	1 - Carcinogenic to humans
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Reproductive toxicity : Not classified

Talc (14807-96-6)

NOAEL (animal/female, F0/P)	> 900 mg/kg bodyweight/day rabbit (OECD 416 method)
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STOT-single exposure : Not classified

Quartz (14808-60-7)

STOT-single exposure	May cause respiratory irritation. Causes damage to organs (lungs) (Inhalation).
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STOT-repeated exposure : Not classified

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Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Dust may cause mechanical irritation of the eyes, skin and upper respiratory tract. May cause cancer (if inhaled).
Other information	: IARC: In 2006, IARC concluded that inhaled talc not containing asbestos or asbestiform fibers is not classifiable as a human carcinogen (Group 3). IARC concluded that there is limited evidence that the use of talc-based body powder for perineal dusting is a possible risk factor for ovarian cancer (Group 2B). This is not a route of exposure relevant to workers and applies only to one specific use of talc.

NTP: In 2000, NTP reviewed both "talc containing asbestiform fibers" and "talc not containing asbestiform fibers," and did not list either type in light of continuing uncertainty in the scientific literature. The NTP did not consider the ovarian cancer studies in the evaluation of talc not containing asbestiform fibers because it was unclear if the talc used in these studies might have been contaminated with asbestos. 66 Fed. Reg. 13,334 (Mar. 5, 2001).

U.S.FDA: In 2009 – 2010, U.S. FDA conducted a survey of currently marketed cosmetic products containing talc- as well as the talc in the cosmetic products, and found no asbestos fibers or structures. FDA continues to monitor new information concerning talc safety. There are epidemiology studies on this subject in the reported literature that should be consulted for further information.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified.

Talc (14807-96-6)	
LC50 fish	89581.02 mg/l - 96 Hours (freshwater fish, QSAR)
EC50 Daphnia	36812.36 mg/l - 48 Hours (freshwater invertebrates, QSAR)
LC50 fish 2	110000 mg/l - 96 Hours (marine water fish, QSAR)
Additional ecotox information	NOEC, marine water fish, acute: 5 979.72 mg/l (30 days, QSAR) NOEC, marine water fish, Chronic: 1 412.65 mg/l (30 days, QSAR) NOEC, freshwater invertebrates, Chronic: 1 459.80 mg/l (30 days, QSAR) NOEC, freshwater algae, Chronic: 918.80 mg/l (30 days, QSAR)

12.2. Persistence and degradability

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Persistence and degradability : Not relevant for inorganic substances.

Talc (14807-96-6)

Persistence and degradability : Not relevant for inorganic substances.

12.3. Bioaccumulative potential

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Bioaccumulative potential : Not relevant for inorganic substances.

Talc (14807-96-6)

BCF - Fish [1] : 3.162 l/kg (Whole body, Freshwater, QSAR)

Log Pow : -9.4 (25 °C, pH 7), (QSAR)

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Talc (14807-96-6)	
Bioaccumulative potential	No potential for bioaccumulation.

12.4. Mobility in soil

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Ecology - soil	No information available.

Talc (14807-96-6)	
Ecology - soil	Insoluble in water.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Additional information	: Handle empty containers with care.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with Department of Transport / Transportation of Dangerous Goods / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

14.3. Transport hazard class(es)

DOT	
Transport hazard class(es) (DOT)	: Not applicable

TDG	
Transport hazard class(es) (TDG)	: Not applicable

IMDG	
Transport hazard class(es) (IMDG)	: Not applicable

IATA	
Transport hazard class(es) (IATA)	: Not applicable

14.4. Packing group

Packing group (DOT)	: Not applicable
Packing group (TDG)	: Not applicable

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Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : No special precautions required

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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SARA Section 311/312 Hazard Classes	Health hazard - Carcinogenicity
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Talc (14807-96-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Talc (14807-96-6)

Listed on the Canadian DSL (Domestic Substances List)

Chlorite-group minerals (1318-59-8)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Quartz (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

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National regulations

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All naturally occurring components of this product are automatically included in the USEPA TSCA inventory list per 4- CFR 710.4 (b). All other components are on the USEPA TSCA inventory list

Generally acceptable for use in vanilla powder and vanilla-vanillin powder under food standards 21 CFR 169.179 and 169.182

Generally Recognized As Safe as an anti-caking agent in table salt up to 2% (21 CFR 182.2437)

Generally approved for use as a pigment or colorant under 21 CFR 175.300, 175.380, 175.390, 176.170, 177.1210, 177.1350, 177.1460

Generally approved for use as a colorant only as components of paper and paperboard in contact with aqueous fatty foods (21 CFR 176.170)

Quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

⚠ WARNING: This product can expose you to Quartz, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Talc(14807-96-6)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
Quartz(14808-60-7)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Revision date : 05/17/2021
Data sources : US OSHA HazCom (GHS) 25 May 2012.
Other information : None.

Full text of H-phrases

H335	May cause respiratory irritation
H350	May cause cancer
H370	Causes damage to organs

Abbreviations and acronyms

	ACGIH (American Conference of Government Industrial Hygienists)
	DOT (Department Of Transportation (US))
	CAS (Chemical Abstracts Service) number
	EC50 (Effective Concentration 50%)
	IARC (International Agency for Research on Cancer)
	IATA (International Air Transport Association)
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	LC50 (Lethal Concentration 50%)

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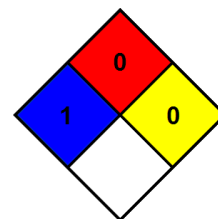
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Abbreviations and acronyms	
	LD50 (Lethal Dose 50%)
	NIOSH (National Institute for Occupational Safety and Health)
	OECD (Organisation for Economic Co-operation and Development)
	OSHA (Occupational Safety and Health Administration) (US)
	PEL (Permissible Exposure Limit)
	STEL (Short Term Exposure Limit)
	TLV (Threshold Limit Value) (ACGIH)
	TSCA (Toxic Substances Control Act) (US)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating Health : 1 Slight Hazard - Irritation or minor reversible injury possible
: * - Chronic (long-term) health effects may result from repeated overexposure

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:			
Section	Changed item	Change	Comments
2	Hazards identification	Modified	
3	Composition/Information on ingredients	Modified	
4	First aid measures	Modified	
6	Accidental release measures	Modified	
7	Handling and storage	Modified	
8	Exposure controls / Personal protection equipment	Modified	
9	Physical and chemical properties	Modified	
10	Stability and reactivity	Modified	
11	Toxicological information	Modified	
12.	Ecological information	Modified	
13	Disposal considerations	Modified	
15	Regulatory information	Modified	
16	Other information	Modified	

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