Technical Data Sheet

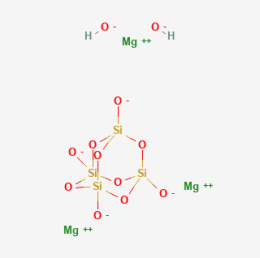
Talc Powder - White Colored Technical Grade

Technical Grade

Alliance Code	Revised	Revision
industrial-talc-powder-gray-colored	2026-10-13	1.6

CAS number

14807-96-6



Structure · PubChem

Grade

Technical Grade

Signal word

Danger

Hazards

Health hazard H350

IDENTITY & COMPOSITION

PRODUCT NAME

Talc Powder - White Colored Technical Grade

ALLIANCE CODE

industrial-talc-powder-gray-colored

GRADE

Technical Grade

CONCENTRATION

—

CAS NUMBER

14807-96-6 PubChem

FORMULA

Mg3Si4O10(OH)2 Adjudicated

MOLECULAR WEIGHT

379.27 g/mol Adjudicated

PRODUCT TYPE

Pure substance

SPECIFICATIONS

TEST	SPECIFICATION	TYPICAL	METHOD	SOURCE
Talc content	Typical only	—	X-ray diffraction (XRD)	Manufacturer typical data
Dolomite and chlorite	Typical only	—	X-ray diffraction (XRD)	Manufacturer typical data

TEST	SPECIFICATION	TYPICAL	METHOD	SOURCE
Median particle diameter (d50)	Typical only	—	Sedigraph (sedimentation)	Manufacturer typical data
Passing 325 mesh (44 µm)	Typical only	—	Sieve, 325 mesh (44 µm)	Manufacturer typical data
Fineness of grind	Typical only	—	Hegman gauge	Manufacturer typical data
Brightness	Typical only	—	GE brightness	Manufacturer typical data
Oil absorption	Typical only	—	—	Manufacturer typical data
Moisture	Typical only	—	—	Manufacturer typical data
Bulking value	Typical only	—	—	Manufacturer typical data

Values are reproduced from the current product reference. Source labels do not by themselves establish a supplier guarantee or a test result for your lot. Confirm applicable acceptance limits and request lot-specific documentation.

PHYSICAL & CHEMICAL PROPERTIES

PROPERTY	VALUE	SOURCE
Appearance	Fine powder, soft texture	Adjudicated
Form	Fine powder	Published reference
Odor	Odorless.	Published reference
Specific Gravity	2.8 (typical)	Adjudicated
Density	2.7 to 2.8 (NTP, 1992)	Published reference
Boiling Point	Not applicable	Adjudicated
Melting Point	1700 to 1800 °F (NTP, 1992)	Adjudicated
Vapor Pressure	0 mmHg at 68 °F Essentially (NTP, 1992)	Published reference
Solubility (water)	less than 1 mg/mL at 70 °F (NTP, 1992)	Published reference

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

Not regulated Adjudicated

HAZARD CLASS

Not regulated Adjudicated

PACKING GROUP

Not regulated Adjudicated

PROPER SHIPPING NAME

Not regulated Adjudicated

GHS / OSHA HCS 2024

SIGNAL WORD

Danger Adjudicated

H-CODES (HAZARD STATEMENTS)

H350 Adjudicated

P-CODES (PRECAUTIONARY STATEMENTS)

P201, P202, P280, P308+P313, P405, P501

Adjudicated

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

20 mppcf TWA OSHA 29 CFR 1910.1000

ACGIH TLV

— no canonical

NIOSH REL

2 mg/m^3 TWA (respirable) NIOSH Pocket Guide

NIOSH IDLH

1000 mg/m^3 NIOSH Pocket Guide

Transport descriptions reflect 49 CFR 172.101 lookup at time of publication. Sourced data: NIOSH Pocket Guide for REL/IDLH, OSHA Z-Tables for PEL. Always verify against the latest regulatory text before shipment-critical decisions.

APPLICATIONS

Lamellar talc for architectural and industrial primers and topcoats: enhances film strength and flexibility and provides barrier properties that improve corrosion resistance and stain blocking.

Manufacturer product data sheet

Rheology control and reinforcement in adhesives, sealants, caulks, joint compound, wood putty and auto body filler.

Manufacturer product data sheet

Applications are drawn from published manufacturer and supplier documentation; each is sourced. Suitability for a specific use is the buyer's to confirm.

STORAGE & HANDLING

RECOMMENDED STORAGE

Keep containers tightly closed in a dry, cool, well-ventilated place away from incompatible materials. Non-combustible solid; minimize dust formation and accumulation.

Adjudicated

HANDLING PRECAUTIONS

Use standard chemical PPE — splash goggles, gloves, lab coat. Refer to SDS for hazard-specific PPE requirements.

Class-level guidance — not product-specific; the SDS controls.

INCOMPATIBILITIES

Strong oxidizing agents. Adjudicated

SHELF LIFE

Consult Technical Services for product-specific shelf life

For full hazard, PPE, and emergency response guidance, refer to the Safety Data Sheet (SDS) for this product. The SDS controls in all cases where guidance differs.

PACKAGING & LOGISTICS

SHIPPING DESCRIPTION (US DOT)

```
Not regulated for transport.
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Confirm against shipping documents and carrier requirements before tender.

NMFC CLASS

70

REVISION HISTORY

Last reviewed 2026-10-13 by Andre Taki, Chief Commercial Officer, DOT Hazmat–certified (49 CFR 172.704).

VERSION	DATE	CHANGE	TRIGGER
1.6	2026-10-13	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. • `storage_precautions` · canonical change (coa.data_provenance / adjudication)	canonical_change

VERSION	DATE	CHANGE	TRIGGER
1.5	2026-10-12	Canonical data updated: 7 fields changed via the provenance/adjudication pipeline. • formula · canonical change (coa.data_provenance / adjudication) • molecularWeight · canonical change (coa.data_provenance / adjudication) • boilingPoint · canonical change (coa.data_provenance / adjudication) • specificGravity · canonical change (coa.data_provenance / adjudication) • incompatible_materials · canonical change (coa.data_provenance / adjudication) • conditions_to_avoid · canonical change (coa.data_provenance / adjudication) • hazardous_decomposition_products · canonical change (coa.data_provenance / adjudication)	canonical_change
1.4	2026-10-05	Canonical data updated: 3 fields changed via the provenance/adjudication pipeline. • oel_niosh_rel · canonical change (coa.data_provenance / adjudication) • oel_idlh · canonical change (coa.data_provenance / adjudication) • oel_osha_pel · canonical change (coa.data_provenance / adjudication)	canonical_change
1.3	2026-10-02	Canonical data updated: 4 fields changed via the provenance/adjudication pipeline. • signalWord · canonical change (coa.data_provenance / adjudication) • ghsClassification · canonical change (coa.data_provenance / adjudication) • hazard_h_codes · canonical change (coa.data_provenance / adjudication) • hazard_p_codes · canonical change (coa.data_provenance / adjudication)	canonical_change
1.2	2026-09-30	Canonical data updated: 2 fields changed via the provenance/adjudication pipeline. • meltingPoint · canonical change (coa.data_provenance / adjudication) • appearance · canonical change (coa.data_provenance / adjudication)	canonical_change
1.1	2026-06-17	Canonical data re-verified: 3 fields updated against independent vendor SDSs, CLP Annex VI, 49 CFR, and OSHA HazCom 2024 (GHS classification, hazard/precautionary codes, signal word, physical properties as applicable). • countryOfOrigin · canonical adjudication / reground (coa.data_provenance) • dotSubsidiaryHazardClass · canonical adjudication / reground (coa.data_provenance) • hsCode · canonical adjudication / reground (coa.data_provenance)	canonical_change
1.0	2026-05-20	Initial URL-first TDS published from canonical chemistry registry.	initial

This Technical Data Sheet is provided for technical reference. The Safety Data Sheet (SDS) controls in all cases where guidance differs. Values reflect Alliance Chemical canonical data at time of generation; subsequent revisions are recorded in the Revision History above.