

TECHNICAL DATA SHEET

Magnesium Hydroxide ACS

CAS NUMBER	ALLIANCE CODE	GENERATED
1309-42-8	magnesium-hydroxide-acs	2026-07-17

1. IDENTITY & COMPOSITION

PRODUCT NAME	ALLIANCE CODE
Magnesium Hydroxide ACS	magnesium-hydroxide-acs
GRADE	CONCENTRATION
—	—
CAS NUMBER	FORMULA
1309-42-8 PubChem	H2MgO2 PubChem
MOLECULAR WEIGHT	PRODUCT TYPE
58.320 PubChem	pure_substance

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE —	—	—	current
—	—	—	magnesium-hydroxide-technical

Typical assay shown is the rolling-window mean from the sibling product's most recent lots. Grade selection drives downstream end-use — verify the sibling grade matches your specification before substitution.

PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE

Dry Powder, Liquid; Pellets or Large Crystals;
Liquid; Water or Solvent Wet Solid; Dry Powder;
Other Solid **Product record**

ODOR

Odorless **Product record**

DENSITY

2.36 g/mL **Product record**

MELTING POINT

350 °C (decomposes) **Product record**

SOLUBILITY (WATER)

Practically insoluble in water and in ethanol
Product record

FORM

Solid **Product record**

PH

pH = 9.5–10.5 (aqueous slurry) **Product record**

BOILING POINT

350 **Product record**

FLASH POINT

N/A **Product record**

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

Not regulated **Adjudicated**

PACKING GROUP

Not regulated **Adjudicated**

HAZARD CLASS

Not regulated **Adjudicated**

PROPER SHIPPING NAME

Not regulated **Adjudicated**

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Not regulated **Adjudicated**

P-CODES (PRECAUTIONARY STATEMENTS)

— **unknown**

H-CODES (HAZARD STATEMENTS)

— **unknown**

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

— **unknown**

NIOSH REL

— **unknown**

ACGIH TLV

— **unknown**

NIOSH IDLH

— **unknown**

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

Supplier Qualification Packet

One zipped download containing the TDS, SDS, latest lot COA (when available), and a fresh Letter of Continuing Guaranty for Magnesium Hydroxide ACS. Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

APPLICATION GUIDANCE

Magnesium Hydroxide ACS application guidance is available on request. Contact Alliance Chemical Technical Services for grade-specific use recommendations.

STORAGE & HANDLING

RECOMMENDED STORAGE

Cool, dry, well-ventilated area in original sealed containers. Refer to product SDS for material-specific guidance.

INCOMPATIBILITIES

Consult the SDS for material-specific incompatibilities.

HANDLING PRECAUTIONS

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

SHELF LIFE

24 months from date of manufacture in sealed, original packaging

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.

REVISION HISTORY

Last reviewed 2026-05-20 by Hossein Taki, Vice President (Vice President, Alliance Chemical · CAGE Code 1LT50 · DOT Hazmat Registrant #2188383).

VERSION	DATE	CHANGE	TRIGGER
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.

ALLIANCE CHEMICAL

Order Magnesium Hydroxide ACS

Bulk & packaged sizes · COA/SDS ships with every order