

TECHNICAL DATA SHEET

Cadmium Oxide Powder ACS Reagent

ACS Reagent

CAS NUMBER	ALLIANCE CODE	GENERATED
1306-19-0	cadmium-oxide-powder-acs-reagent	2026-07-17

1. IDENTITY & COMPOSITION

PRODUCT NAME	ALLIANCE CODE
Cadmium Oxide Powder ACS Reagent	cadmium-oxide-powder-acs-reagent
GRADE	CONCENTRATION
ACS Reagent	—
CAS NUMBER	FORMULA
1306-19-0 PubChem	CdO PubChem
MOLECULAR WEIGHT	PRODUCT TYPE
128.41 PubChem	pure_substance

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE ACS Reagent	—	—	current
—	—	—	cadmium-oxide-powder

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

Brown crystalline or amorphous powder

[Product record](#)

ODOR

Odorless [Product record](#)

DENSITY

8.15 g/cm³ (crystalline); 6.95 g/cm³ (amorphous)

[Product record](#)

MELTING POINT

~1500 °C (>2732 °F, decomposes/sublimes)

[Product record](#)

VAPOR PRESSURE

Negligible [Product record](#)

FORM

Solid [Product record](#)

PH

9–10 [Product record](#)

BOILING POINT

~1559 °C (sublimes) [Product record](#)

FLASH POINT

Not applicable (non-combustible solid)

[Product record](#)

SOLUBILITY (WATER)

Insoluble in water (<1 mg/mL) [Product record](#)

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

UN2570 [Adjudicated](#)

PACKING GROUP

I [Adjudicated](#)

HAZARD CLASS

6.1 [Adjudicated](#)

PROPER SHIPPING NAME

Cadmium compound (Cadmium oxide)

[Adjudicated](#)

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Danger [Adjudicated](#)

H-CODES (HAZARD STATEMENTS)

H301, H330, H341, H350, H361fd, H372, H410

[Adjudicated](#)

P-CODES (PRECAUTIONARY STATEMENTS)

P201, P202, P260, P264, P270, P271, P273, P280,
P281, P284, P301+P310, P304+P340, P308+P313,
P310, P314, P320, P321, P330, P391, P403+P233,...

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

0.005 mg/m³ TWA (as Cd)

[OSHA 29 CFR 1910.1000](#)

ACGIH TLV

— [unknown](#)

NIOSH REL

Ca (carcinogen — lowest feasible concentration)

[NIOSH Pocket Guide](#)

NIOSH IDLH

9 mg/m³ (as Cd) [NIOSH Pocket Guide](#)

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 Cadmium Oxide Powder ACS Reagent. Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

APPLICATION GUIDANCE

Cadmium Oxide Powder ACS Reagent (ACS Reagent) 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.

PACKAGING & LOGISTICS

SHIPPING DESCRIPTION (US DOT)

UN2570, Cadmium compound (Cadmium oxide), 6.1, PG I

Sourced from 49 CFR 172.101. Confirm against shipping documents and carrier requirements before tender.

NMFC CLASS
60

PLACARD
Toxic

PACKING GROUP
PG I

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 Cadmium Oxide Powder ACS Reagent

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