

TECHNICAL DATA SHEET

Potassium Dichromate - Technical Grade

CAS NUMBER

7778-50-9

ALLIANCE CODE

potassium-dichromate-sodium-
bichromate-technical-grade

GENERATED

2026-07-17

1. IDENTITY & COMPOSITION

PRODUCT NAME

Potassium Dichromate - Technical Grade

ALLIANCE CODE

potassium-dichromate-sodium-bichromate-
technical-grade

GRADE

—

CONCENTRATION

—

CAS NUMBER

7778-50-9 [PubChem](#)

FORMULA

Cr₂K₂O₇ [PubChem](#)

MOLECULAR WEIGHT

294.18 [PubChem](#)

PRODUCT TYPE

pure_substance

PHYSICAL & CHEMICAL PROPERTIES

One or more physical-property values are temporarily suppressed pending verification against vendor COA data. For complete properties refer to the Safety Data Sheet (SDS) or contact sales@alliancechemical.com.

FORM

Solid [Product record](#)

ODOR

Odorless, no distinctive odor [Product record](#)

DENSITY

2.676 at 77 °F (USCG, 1999) - Denser than water;
will sink [Product record](#)

BOILING POINT

Decomposes at 932 °F (NTP, 1992)
[Product record](#)

MELTING POINT

748 °F (NTP, 1992) [Product record](#)

FLASH POINT

N/A [Product record](#)

SOLUBILITY (WATER)

10 to 50 mg/mL at 68 °F (NTP, 1992)
[Product record](#)

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

UN3086 **Vendor Label**

PACKING GROUP

II **Adjudicated**

HAZARD CLASS

6.1 **Adjudicated**

PROPER SHIPPING NAME

Toxic solid, oxidizing, n.o.s. (Potassium dichromate) **Adjudicated**

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Danger **Adjudicated**

H-CODES (HAZARD STATEMENTS)

H272, H301, H312, H314, H317, H330, H334, H340, H350, H360FD, H372, H400, H410 **Adjudicated**

P-CODES (PRECAUTIONARY STATEMENTS)

P201, P210, P220, P233, P260, P261, P264, P270, P271, P272, P273, P280, P284, P301+P310, P301+P330+P331, P302+P352, P303+P361+P353,...

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

— **unknown**

ACGIH TLV

— **unknown**

NIOSH REL

— **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 Potassium Dichromate – Technical Grade. Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

APPLICATION GUIDANCE

Potassium Dichromate – Technical Grade 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)

UN3086, Toxic solid, oxidizing, n.o.s. (Potassium dichromate), 6.1, PG II

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

NMFC CLASS
65

PLACARD
Toxic

PACKING GROUP
PG II

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 Potassium Dichromate – Technical Grade

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