

TECHNICAL DATA SHEET

Urea - Organic Nitrogen

CAS NUMBER

57-13-6

ALLIANCE CODE

urea-organic-nitrogen

GENERATED

2026-07-17

1. IDENTITY & COMPOSITION

PRODUCT NAME

Urea - Organic Nitrogen

ALLIANCE CODE

urea-organic-nitrogen

GRADE

—

CONCENTRATION

—

CAS NUMBER

57-13-6 [PubChem](#)

FORMULA

CH₄N₂O [PubChem](#)

MOLECULAR WEIGHT

60.056 [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.

APPEARANCE

Urea appears as solid odorless white crystals or pellets. Density 1.335 g /cc. Noncombustible.

[Product record](#)

ODOR

MAY GRADUALLY DEVELOP SLIGHT ODOR OF AMMONIA, ESP IN PRESENCE OF MOISTURE

[Product record](#)

BOILING POINT

Decomposes (NTP, 1992)

[Product record](#)

FLASH POINT

>200°C

[Product record](#)

SOLUBILITY (WATER)

Soluble (NTP, 1992)

[Product record](#)

FORM

Pellets

[Product record](#)

DENSITY

1.34 at 68 °F (USCG, 1999) - Denser than water; will sink

[Product record](#)

MELTING POINT

275 °F (NTP, 1992)

[Product record](#)

VAPOR PRESSURE

0.000012 [mmHg]

[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**

H-CODES (HAZARD STATEMENTS)

— **unknown**

P-CODES (PRECAUTIONARY STATEMENTS)

— **unknown**

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 Urea – Organic Nitrogen. Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

APPLICATION GUIDANCE

Urea – Organic Nitrogen 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 Urea – Organic Nitrogen

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