

TECHNICAL DATA SHEET

# Mineral Spirits - Odorless Solvent & Thinner

CAS NUMBER  
64742-47-8

ALLIANCE CODE  
mineral-spirits

GENERATED  
2026-07-18

## 1. IDENTITY & COMPOSITION

PRODUCT NAME  
Mineral Spirits - Odorless Solvent & Thinner

ALLIANCE CODE  
mineral-spirits

GRADE  
—

CONCENTRATION  
—

CAS NUMBER  
64742-47-8 Adjudicated

FORMULA  
Primarily C9-C15 hydrocarbons Alliance SDS

MOLECULAR WEIGHT  
134-170 g/mol Alliance SDS

PRODUCT TYPE  
pure\_substance

## PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE  
Colorless liquid Product record

FORM  
Liquid Product record

BOILING POINT  
158 Product record

MELTING POINT  
-58 Product record

FLASH POINT  
42 Product record

SOLUBILITY (WATER)  
Very slightly soluble in water (1.5 g/L)  
Product record

## MATERIALS OF CONSTRUCTION

| MATERIAL               | RATING            | MAX T (°C) | NOTES                                                   | SOURCE                                               |
|------------------------|-------------------|------------|---------------------------------------------------------|------------------------------------------------------|
| Buna-N (NBR) Elastomer | <span>Good</span> | 80         | Good for non-aromatic hydrocarbons; poor for aromatics. | <a href="#">Parker O-ring Chemical Compatibility</a> |

| MATERIAL                         | RATING                 | MAX T<br>(°C) | NOTES                                         | SOURCE                                                       |
|----------------------------------|------------------------|---------------|-----------------------------------------------|--------------------------------------------------------------|
| EPDM<br>Elastomer                | Not<br>recommen<br>ded | —             | Swells in hydrocarbons; never<br>use.         | <a href="#">Parker O-ring<br/>Chemical<br/>Compatibility</a> |
| Viton (FKM)<br>Elastomer         | Excellent              | 100           | Standard for hydrocarbon<br>service.          | <a href="#">Parker O-ring<br/>Chemical<br/>Compatibility</a> |
| PTFE<br>Fluoropolymer            | Excellent              | 200           | Universal.                                    | <a href="#">Cole-Parmer<br/>Chemical<br/>Compatibility</a>   |
| 316L Stainless<br>Steel<br>Metal | Excellent              | 100           | Inert.                                        | <a href="#">Cole-Parmer<br/>Chemical<br/>Compatibility</a>   |
| Carbon Steel<br>Metal            | Good                   | 80            | Acceptable for dry<br>hydrocarbons.           | <a href="#">Cole-Parmer<br/>Chemical<br/>Compatibility</a>   |
| HDPE<br>Thermoplastic            | Not<br>recommen<br>ded | —             | Aromatic solvents swell and<br>dissolve HDPE. | <a href="#">Cole-Parmer<br/>Chemical<br/>Compatibility</a>   |

Ratings reflect the service envelope (concentration × temperature) shown. Always confirm against your specific duty cycle and contact-time before equipment selection. The most cautious rating across overlapping references is shown.

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

UN1268 **Vendor Label**

PACKING GROUP

III **Adjudicated**

HAZARD CLASS

3 **Adjudicated**

PROPER SHIPPING NAME

Petroleum distillates, n.o.s. (Mineral spirits)  
**Adjudicated**

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Danger **Adjudicated**

H-CODES (HAZARD STATEMENTS)

H226, H304, H336 **Adjudicated**

P-CODES (PRECAUTIONARY STATEMENTS)

P210, P233, P280 **Adjudicated**

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 Mineral Spirits – Odorless Solvent & Thinner. Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

## APPLICATION GUIDANCE

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Mineral Spirits – Odorless Solvent & Thinner is a nonpolar solvent used for hydrocarbon extraction, coatings, and degreasing.

- Coatings, paints, and adhesives
- Industrial degreasing
- Hydrocarbon extraction and recovery
- Rubber and polymer processing
- Cleaning of oil-based residues

Highly flammable and electrostatic-prone. Use grounded transfer equipment and inert gas blanketing where appropriate.

## STORAGE & HANDLING

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### RECOMMENDED STORAGE

Cool, well-ventilated flammable-liquid storage. Tightly sealed containers. Segregate from oxidizers. Bond and ground bulk storage;...

### INCOMPATIBILITIES

Strong oxidizers, halogens, nitric acid. Some grades react with rubber and certain plastics — verify gasket and hose compatibility.

### HANDLING PRECAUTIONS

Eliminate ignition sources. Use chemical-resistant nitrile or PVA gloves. Bond and ground all transfer equipment. Vapors heavier than air ...

### 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

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### SHIPPING DESCRIPTION (US DOT)

UN1268, Petroleum distillates, n.o.s. (Mineral spirits), 3, PG III

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

|                    |                             |                         |
|--------------------|-----------------------------|-------------------------|
| NMFC CLASS<br>77.5 | PLACARD<br>Flammable Liquid | PACKING GROUP<br>PG III |
|--------------------|-----------------------------|-------------------------|

## REVISION HISTORY

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Last reviewed 2026-07-17 by Andre Taki, DOT Hazmat Specialist.

| VERSION | DATE       | CHANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TRIGGER          |
|---------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 1.1     | 2026-07-17 | Canonical data re-verified: 9 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). <ul style="list-style-type: none"> <li>• bulkThresholdGallons · canonical adjudication / reground (coa.data_provenance)</li> <li>• casNumber · canonical adjudication / reground (coa.data_provenance)</li> <li>• countryOfOrigin · canonical adjudication / reground (coa.data_provenance)</li> <li>• ghsClassification · canonical adjudication / reground (coa.data_provenance)</li> <li>• hazard_h_codes · canonical adjudication / reground (coa.data_provenance)</li> <li>• hazard_p_codes · canonical adjudication / reground (coa.data_provenance)</li> <li>• hsCode · canonical adjudication / reground (coa.data_provenance)</li> <li>• regulationRule · canonical adjudication / reground (coa.data_provenance)</li> <li>• signalWord · canonical adjudication / reground (coa.data_provenance)</li> </ul> | 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.

ALLIANCE CHEMICAL

## Order Mineral Spirits – Odorless Solvent & Thinner

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