SAFETY DATA SHEET

Lubricating Oil, Food Processing Equipment (H1 Food-Grade)

Revised: 07/01/2026

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lubricating Oil, Food Processing Equipment (H1 Food-Grade)
Synonyms: lubricating oil (variable composition)
CAS Number: Mixture (white mineral oil / food-grade base oil, 8042-47-5)
Grade/Purity: MIL-PRF-24651A
Product Type: Lubricating Oil (Liquid)
Product Use: Industrial, Manufacturing or Laboratory use
Manufacturer/Supplier: Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574
Information: 512-365-6838 | www.alliancechemical.com
Emergency: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Signal Word: Not Classified

GHS Pictograms:

None assigned

Hazard Statements:

Not	classified as hazardous under OSHA HCS / GHS (refined petroleum lubricating oil). NSF H1 registered for incidental food contact.

Precautionary Statements:

P264	Wash hands after handling.
P501	Dispose of contents and container in accordance with all applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	% MIN	% MAX	CAS #	EINECS# / ELINCS#	FORMULA	MOLECULAR WEIGHT
lubricating oil (variable composition)	100	100	Mixture (white mineral oil / food-grade base oil, 8042-47-5)		Petroleum hydrocarbon mixture	Varies g/mol

4. FIRST-AID MEASURES

Eyes	Rinse with water for several minutes. Get medical attention if irritation persists.
Skin	Wipe off and wash with soap and water. Prolonged/repeated contact may cause mild irritation or dermatitis; remove oil-soaked clothing. High-pressure injection injuries require immediate surgical attention.
Inhalation	Not a likely route. If oil mist/vapor from hot oil is inhaled, move to fresh air.
Ingestion	Low toxicity. Do NOT induce vomiting (aspiration risk for low-viscosity oils). Rinse mouth. Get medical attention if a large amount is swallowed.

5. FIRE-FIGHTING MEASURES

Suitable Media	Use water spray, alcohol-resistant foam, dry chemical, or CO2. Use measures appropriate to local circumstances.
Unsuitable Media	Do not use a solid water stream as it may scatter and spread fire.
Protective Equipment	Wear self-contained breathing apparatus and full protective clothing.
Combustion Products	May include carbon oxides and other toxic fumes. See Section 10.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental	Prevent leakage or spillage from entering drains, sewers, or waterways.
Containment & Cleanup	Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

7. HANDLING AND STORAGE

Safe Handling	Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.
Safe Storage	Store in a cool, dry, well-ventilated area. Keep away from: Strong oxidizers. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

Occupational Exposure Limits:

AGENCY	EXPOSURE LIMIT
OSHA PEL	5 mg/m3 (oil mist, if generated)
ACGIH TLV	5 mg/m3 (mineral oil mist)
NIOSH REL	5 mg/m3 (oil mist)
IDLH	2500 mg/m3 (mineral oil mist)

Eyes	Wear chemical safety goggles or face shield.
Skin	Wear chemical-resistant gloves and protective clothing.
Inhalation	Use NIOSH-approved respirator if exposure limits are exceeded or irritation occurs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless, odorless to nearly odorless oily liquid (NSF H1 food-grade)
Odor	Odorless to very mild
Median Particle Size	Not Applicable
Particle Size Distribution	Not Applicable
Particle Shape	Not Applicable
Surface Area	Not Applicable
Dustiness	Not Applicable
Hygroscopicity	Not Applicable
pH	Not applicable (water-insoluble)
Melting Point	Pour point ~ -20 to -40 C
Boiling Point	> 300 C (base oil)
Flash Point	> 180 C (closed cup, base oil)
Vapor Pressure	Negligible at ambient temperature
Specific Gravity	~0.86-0.90
Solubility	Insoluble in water
Molecular Formula	Petroleum hydrocarbon mixture
Molecular Weight	Varies g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.

Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Heat, sparks, open flame, and incompatible materials.
Incompatible Materials	Strong oxidizers
Decomposition Products	May produce carbon oxides and other toxic fumes when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See below for route-specific data.

ROUTE	VALUE
LD50 Oral	> 5000 mg/kg (base oil) - practically non-toxic
LD50 Dermal	> 2000 mg/kg
LC50 Inhalation	Not applicable (non-volatile); oil mist is the concern

IARC	Not listed as carcinogen.
NTP	Not listed as carcinogen.
OSHA	Not listed as carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Fish LC50: Practically non-toxic (insoluble); Daphnia EC50: Practically non-toxic [PubChem]
Persistence	Inherently biodegradable (base oil)
Bioaccumulation	BCF: Low practical bioavailability (insoluble)
Mobility in Soil	Low mobility in soil (Log Kow > 3)

13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

14. TRANSPORT INFORMATION

US DOT	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
IATA/ICAO	Not regulated as dangerous goods.
Marine Pollutant	No

15. REGULATORY INFORMATION

TSCA: components listed. SARA 313 (TRI): not listed. CERCLA: no RQ. California Proposition 65: not listed (highly-refined base oil, IP346 DMSO extract < 3%). State Right-to-Know: petroleum oil may be listed. US DOT: not regulated. NSF H1 registered for incidental food contact (21 CFR 178.3570).

SARA 311/312	See Section 2 for hazard classifications.

16. OTHER INFORMATION

Revision Date: 07/01/2026

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of publication. It relates only to the specific product identified and does not relate to its use in combination with other materials. ALLIANCE CHEMICAL MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALLIANCE CHEMICAL DOES NOT ASSUME LIABILITY FOR LOSS, INJURY, DAMAGE, OR EXPENSE ARISING FROM THE HANDLING, STORAGE, USE, OR DISPOSAL OF THIS PRODUCT.