



SAFETY DATA SHEET

AERO Compressor Oil ISO 46 (Full Synthetic Rotary Screw & Vane)

Issue date: 03-Jun-2015 · Revision date (this AERO edition): July 2026 · Version: AERO-1

1. IDENTIFICATION

Product name	AERO Compressor Oil ISO 46
Source formulation	BlueSky Alto Syn PAO 46
Recommended use	Lubricant for rotary screw, vane and centrifugal air compressors.
Uses advised against	Any application other than those recommended.

Distributed by

AERO Pressure Systems, Rohnert Park, CA 94928 · (415) 991-9119 · aeropressuresystems.com

Manufactured by

BlueSky Lubricants, 375 Stewart Rd, Hanover Twp., Pennsylvania 18706 · (570) 822-1151

Emergency telephone

(570) 822-1151 (manufacturer)

2. HAZARDS IDENTIFICATION

OSHA regulatory status: This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

Signal word	Not classified
Hazard statements	None
Precautionary statements	None required under GHS

California Proposition 65

⚠ WARNING: This product can expose you to DIDP, a chemical known to the State of California to cause birth defects or other reproductive harm. www.P65Warnings.ca.gov

3. COMPOSITION / INFORMATION ON INGREDIENTS

Base fluid: synthetic polyalphaolefin (PAO) hydrocarbon, not classified hazardous. Additive component disclosed below.

Component	CAS-No	Weight %
1,2-Benzenedicarboxylic acid di-C9-C11 branched alkyl ester (DIDP)	68515-49-1	5–10 %

4. FIRST-AID MEASURES

Eye contact	Flush eyes with water for 15 minutes. If symptoms persist, call a physician.
Skin contact	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	Drink 1 or 2 glasses of water. Do not induce vomiting. Consult a physician if necessary.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Carbon dioxide (CO ₂), dry chemical, water spray mist or foam.
Unsuitable media	Do not use a solid water stream; it may scatter and spread the fire.
Specific hazards	Thermal decomposition can release irritating gases and vapors. Cool tanks with water spray.
Protective equipment	Wear self-contained breathing apparatus. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Contaminated surfaces will be extremely slippery. Wear personal protective equipment.

Environmental precautions: Should not be released into the environment. Avoid subsoil penetration and entry to drains or waterways.

Cleaning up: Prevent further leakage if safe to do so. Absorb spill with inert material (dry sand or earth) and place in a chemical waste container.

7. HANDLING AND STORAGE

Handling: Always replace the cap after use. Spillage onto the container's outside will make it slippery. Handle in accordance with good industrial hygiene and safety practice.

Storage: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store away from heat, sparks and open flame; keep from freezing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines: Contains synthetic oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg/m³ and ACGIH STEL of 10 mg/m³ (oil mist).

Engineering controls	Ensure adequate ventilation, especially in confined areas.
Respiratory protection	In case of mist/spray/aerosol exposure, wear suitable respiratory protection.
Hand protection	Impervious gloves.
Eye protection	Safety glasses.
Skin/body protection	Usual safety precautions while handling provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Appearance	Oil
Color	Clear
Odor	Mild
Boiling point / range	> 315 °C (600 °F)
Flash point	> 232 °C (450 °F), Cleveland Open Cup
Specific gravity	< 0.9
Water solubility	Insoluble in water
Kinematic viscosity	approx. 43.2 cSt @ 40 °C
Viscosity index	130 (typical)
Pour point	-38 °C (-39 °F) (typical)

10. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Hazardous reactions	None under normal processing. Hazardous polymerization does not occur.
Conditions to avoid	No special storage conditions required. Avoid excessive heat and open flame.
Incompatible materials	Strong oxidizing agents.
Decomposition products	None reasonably foreseeable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Product does not present an acute toxicity hazard based on known or supplied information.

Eye contact	May cause slight irritation.
Skin contact	Only mildly irritating to the skin.
Inhalation	Vapors/aerosols formed at elevated temperatures may irritate eyes and respiratory tract.
Ingestion	May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Carcinogenicity	Contains no carcinogens listed by OSHA, IARC or NTP.
Reproductive toxicity	See California Prop 65 (Section 2). Contains DIDP.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic life with long-lasting effects. The product is insoluble and floats on water.

Additive component (DIDP, CAS 68515-49-1) aquatic toxicity: Fish LC50 0.55–1 mg/L (96 h); Daphnia EC50 0.18 mg/L (48 h); Algae EC50 1.3 mg/L (96 h).

Persistence/degradability and bioaccumulation: No data available. Do not discharge to drains, soil or water.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable regional, national and local laws and regulations. Send used oil for reclamation/recycling at an authorized collection point. Do not reuse the container.

14. TRANSPORT INFORMATION

DOT	Not regulated by any means of transportation.
IATA / IMDG	Not regulated.

15. REGULATORY INFORMATION

TSCA: Listed. DSL (Canada): all components listed. Complies with EINECS/ELINCS, China IECSC, Korea KECL, Philippines PICCS, Australia AICS.

SARA 313: Does not contain chemicals subject to reporting under Section 313. SARA 311/312 hazard categories: Acute No, Chronic No, Fire No, Pressure No, Reactive No.

CERCLA / Clean Water Act: Contains no regulated substances as supplied.

California Proposition 65

Contains DIDP (diisodecyl phthalate), listed for reproductive toxicity. See Section 2 warning.

16. OTHER INFORMATION

NFPA	Health 1	Flammability 1	Instability 0
HMIS	Health 1	Flammability 1	Physical 0

Disclaimer: This AERO-branded Safety Data Sheet reproduces the manufacturer (BlueSky Lubricants) SDS dated 03-Jun-2015 for the product supplied as AERO Compressor Oil ISO 46. The information is provided as guidance for safe handling, use, storage, transport and disposal and is not a warranty or quality specification. Verify against the current manufacturer SDS before relying on this document. AERO Pressure Systems distributes this product and is not the manufacturer of record.