

SAFETY DATA SHEET

According to HCS 2012

Section 1: Identification

Product Identifier: Purus Synthetic Solutions PAO Premium Polyol Ester Air Compressor Lubricant ISO 46

Product Code: XA 155 Series, PSS77365, PSS57365, PSS27365, PSS17365

Recommended use: Industrial Lubricant

Recommended Restrictions on use: None known.

Manufacturer Information

Name: Xaerus Performance Fluids

Address: 2825 Schuette Road, Midland, MI 48642

FAX number: 989-486-8383

Emergency phone number: 989-486-8330

Section 2: Hazard(s) Identification

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Reproductive toxicity: Category 2

GHS label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

Suspected of damaging fertility

Precautionary statements:

Prevention:

Obtain & review special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

Avoid personal contact. Observe good personal hygiene.

Storage:

Store in cool, dry place away from direct heat & moisture.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

Section 3: Composition/information on ingredients

Chemical Name	Common name/Synonyms	CAS number
Alpha Olefins Oligomers, Hydrogenated	Not available	Not available
1-Dodecene homopolymer, hydrogenated	Not available	151006-63-2
Proprietary Fatty Acid Ester	Not available	Not available

Hazardous Substance(s) required for disclosure

Chemical Name	Common name/Synonyms	CAS number	%
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Not available	68411-46-1	≥ 0.1 – 5.0%*

*Actual concentration is withheld as a trade secret

Section 4: First-aid measures

Inhalation: Move victim to fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Skin contact: Wash affected area with soap and water.

Eye contact: Flush eyes with water for at least 15 minutes. If irritation develops seek medical attention.

Ingestion: If swallowed and symptoms develop seek medical attention.

Most important symptoms/effects, acute and delayed: Prolonged contact may result in mild skin irritation and drying and cracking. Effects of overexposure may include irritation of the digestive tract, irritation of the respiratory tract, nausea and diarrhea.

Indication of immediate medical attention and special treatment needed: If exposed and experiencing symptoms, seek medical attention and indicate materials involved.

Section 5: Fire-fighting measures

General fire hazards: This material may burn, but will not readily ignite.

Suitable extinguishing media: Dry chemical, CO₂, foam and water spray.

Unsuitable: Straight streams of water.

Specific hazards arising from the chemical: If container is not properly cooled, it can rupture in the heat of a fire.

Special protective equipment: Self-contained breathing apparatus and protective clothing.

Precautions for fire-fighters: Low hazard, liquid can burn upon heating to elevated temperatures. Isolate immediate hazard area, keep authorized personnel out. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear appropriate protective equipment.

Methods/materials for containments and clean-up: Absorb the material with inert absorbent and dispose of in accordance with federal, state and local laws.

Section 7: Handling and storage

Precautions for safe handling: Avoid inhalation of mists or vapors. Avoid contact with skin and eyes. Ensure adequate ventilation and wash hands after use. For personal protection see

section 8. Smoking, eating and drinking should be prohibited in the application area. Do not ingest. Avoid getting on skin and clothing. Keep container closed when not in use.

Conditions for safe storage: Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Store in accordance with the local, regional and national regulations.

Incompatible materials: Avoid contact with strong oxidizing agents.

Section 8: Exposure controls/ personal protection

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures: Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Respiratory protection: Not required; except in case of aerosol formation

Filter type: Filter type A-P

Hand protection

Material: Nitrile rubber

Break through time: > 10 min

Protective index : Class 1

Remarks: Wear protective gloves. The breakthrough time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Eye protection:

Safety glasses with side-shields

Skin and body protection:

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures:

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures:

Wash face, hands and any exposed skin thoroughly after handling.

Section 9: Physical and chemical properties

Appearance

Physical state: Liquid

Color: Clear to slightly yellow

Odor: Mild petroleum

Odor threshold: Not available.

pH: Not available.

Melting point/freezing point: Not available.

Initial boiling point/boiling point range:

Flashpoint: $\geq 437^{\circ}\text{F}$, $\geq 225^{\circ}\text{C}$; ASTM D-92

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Flammability limits

Upper flammability limit: Not available.

Lower flammability limit: Not available.

Explosive limit

Upper explosive limit: Not available.

Lower explosive limit: Not available.

Vapor pressure: <0.1 mmHg @ 20°C

Vapor density: >1

Relative density: 0.84 – 0.87

Solubility in water: Negligible

Partition coefficient: n-octanol/water: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: >20.6 cSt – 320 cSt @40°C

Section 10: Stability and reactivity

Reactivity: Stable under normal conditions of use.

Chemical stability: Stable.

Possibility of hazardous reactions: Polymerization is not known to occur.

Conditions to avoid: Avoid contact with incompatible materials and elevated temperatures.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides, nitrogen oxides, sulfur oxides, phosphorous and zinc oxides.

Section 11: Toxicological information

Acute toxicity

Product:

Acute oral toxicity: Remarks: This information is not available.

Acute inhalation toxicity: Remarks: This information is not available.

Acute dermal toxicity: Remarks: This information is not available.

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity:

LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Product:

Remarks: This information is not available

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rabbit

Assessment: No skin irritation

Method: OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Product:

Remarks : This information is not available.

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species: Guinea pig

Assessment: Did not cause sensitization on laboratory animals.

Method: OECD Test Guideline 406

Result: Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Product:

Genotoxicity in vitro: Remarks: No data available

Genotoxicity in vivo: Remarks: No data available

Carcinogenicity

Product:

Remarks: No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

IARC/OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Product:

Effects on fertility: Remarks: No data available

Effects on fetal development: Remarks: No data available

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Reproductive toxicity - Assessment: - Fertility - Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Repeated dose toxicity

Product:

Remarks: This information is not available.

Aspiration toxicity

Product:

This information is not available.

Further information

Product:

Remarks: Information given is based on data on the components and the toxicology of similar products.

Section 12: Ecological information

Ecotoxicity

Product:

Toxicity to fish: Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity to daphnia and other aquatic invertebrates: Remarks: No data available

Toxicity to algae/aquatic plants: Remarks: No data available

Toxicity to microorganisms: Remarks: No data available

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Toxicity to fish: LC50 (Danio rerio (zebra fish)): > 100 mg/l

Exposure time: 96 h

Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): 51 mg/l

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants:

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

Persistence and degradability

Product:

Biodegradability: Remarks: No data available

Physico-chemical removability: Remarks: No data available

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Biodegradability:

aerobic

Inoculum: activated sludge

Result: Not rapidly biodegradable

Biodegradation: 1 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

Bio accumulative potential

Product:

Bioaccumulation: Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very.

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Partition coefficient: octanol/water: log Pow: > 5

Mobility in soil

Product:

Mobility: Remarks: No data available

Distribution among environmental compartments: Remarks: No data available

Other adverse effects**Product:**

Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S.

Clean Air Act Section 602 (40 CFR 82, Sub pt. A, App .A + B).

Additional ecological information: Harmful to aquatic life with long lasting effects.

Section 13: Disposal considerations

Waste disposal method: Dispose of in accordance with all federal, state, and local laws. Do not dispense or discharge into drains/surface waters/groundwater.

Contaminated packaging: Packaging that is not properly emptied must be disposed of as the unused product. Dispose of waste product or used containers according to local regulations.

Section 14: Transportation information**DOT**

NOT REGULATED

IATA

NOT REGULATED

IMDG

NOT REGULATED

Special precautions: Carefully read and consider all recommendations of the SDS before handling.

Transportation in bulk (Annex II of MARPOL73/78 and the IBC code): Not applicable

Section 15: Regulatory information

US Federal regulations: This product is not considered to be hazardous under OSHA.

Inventory status(s):

TSCA (Toxic Substance Control Act): All components of this product are listed or comply with TSCA. Any impurities are not required to be listed.

CERCLA Hazardous Substance List: None listed.

SARA 311/ 312 hazardous chemical: Reproductive toxicity.

SARA 313: None listed.

WHMIS: Non-controlled.

Canada Lists:

None of the components are listed.

Canadian NPRI: None of the components are listed

CEPA Toxic substances: None of the components are listed

Canada inventory: CEPA Toxic substances: All components are listed or exempted

Section 16: Other information, including date of preparation or last revision

NFPA

Health Hazards: 1

Flammability: 1

Reactivity: 0

Special Hazards: Not determined

HMIS

Health Hazards: 1

Flammability: 1

Reactivity: 0

Special Hazards: Not determined

Preparation Date: 1/1/2025

Version number: 2.0

Disclaimer:

As the conditions or methods of use are beyond our control, we do not assume any responsibility or liability for any use of this product. Information contained herein is believed to be true and accurate, but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.