



SynGard™ PAO Compressor Oil ISO 46

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 8/8/2024 Revision date: 8/8/2024 Supersedes: 10/6/2014 Version: 2.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : SynGard™ PAO Compressor Oil ISO 46
Product code : 594021

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Lubricating oil

1.3. Supplier

Martin Lubricants
484 East 6th St.
Smackover, AR 71762

1.4. Emergency telephone number

Emergency number : CHEMTREC (800) 424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labelling

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
1-Tetradecene polymer with 1-dodecene, distn. residues, hydrogenated, C=24□56 fraction	CAS-No.: 883233-48-5	35 – 70
1-Tetradecene polymer with 1-dodecene, distn. residues, hydrogenated, C=36□84 fraction	CAS-No.: 883233-91-8	20 – 35
White Mineral Oil	CAS-No.: 8042-47-5	1.5 – 2.5

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Name	Product identifier	%
Distillates, hydrotreated heavy paraffinic	CAS-No.: 64742-54-7	0.25 – 0.35
Distillates (petroleum), hydrotreated middle	CAS-No.: 64742-46-7	0.012 – 0.02

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

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6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

Distillates (petroleum), hydrotreated middle (64742-46-7)

No additional information available

1-Tetradecene polymer with 1-dodecene, distn. residues, hydrogenated, C=24 □ 56 fraction (883233-48-5)

No additional information available

1-Tetradecene polymer with 1-dodecene, distn. residues, hydrogenated, C=36 □ 84 fraction (883233-91-8)

No additional information available

Distillates, hydrotreated heavy paraffinic (64742-54-7)

No additional information available

White Mineral Oil (8042-47-5)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	5 mg/m ³ (Inhalable fraction)
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8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

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Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Amber, clear liquid.
Colour	: Amber
Odour	: Mild petroleum; Hydrocarbon
Odour threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 260 °C
Flash point	: 253 °C
Relative evaporation rate (butylacetate=1)	: Negligible at STP
Flammability (solid, gas)	: Flash Point at or above 200 °F Not applicable.
Vapour pressure	: Negligible at STP
Relative vapour density at 20 °C	: > 1 at STP
Relative density	: 0.852
Density	: 7.131 lb/gal
Solubility	: Material nearly insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 49.66 mm ² /s at 40°C (104°F)
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Distillates (petroleum), hydrotreated middle (64742-46-7)

LD50 oral rat	> 5000 mg/kg Source: ECHA
LD50 dermal rabbit	> 2000 mg/kg Source: ECHA
LC50 Inhalation - Rat (Dust/Mist)	> 4.6 mg/l Source: ECHA
ATE US (dust,mist)	1.5 mg/l/4h

1-Tetradecene polymer with 1-dodecene, distn. residues, hydrogenated, C=24 □ 56 fraction (883233-48-5)

LD50 oral rat	> 5000 mg/kg Source: ECHA
LD50 dermal rat	> 3000 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	1.17 mg/l Source: ECHA
ATE US (vapours)	1.17 mg/l/4h

1-Tetradecene polymer with 1-dodecene, distn. residues, hydrogenated, C=36 □ 84 fraction (883233-91-8)

LD50 oral rat	> 2000 mg/kg Source: ECHA
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Distillates, hydrotreated heavy paraffinic (64742-54-7)

LD50 oral rat	> 15000 mg/kg Source: IUCLID
LD50 dermal rabbit	> 5000 mg/kg Source: IUCLID

White Mineral Oil (8042-47-5)

LD50 oral rat	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Read-across, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 5 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (aerosol), 14 day(s))

Skin corrosion/irritation : Not classified

White Mineral Oil (8042-47-5)

pH	No data available in the literature
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Serious eye damage/irritation : Not classified

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White Mineral Oil (8042-47-5)

pH : No data available in the literature

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified.
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : 49.66 mm²/s at 40°C (104°F)

Distillates (petroleum), hydrotreated middle (64742-46-7)

Viscosity, kinematic : > 20.5 mm²/s (40 °C, Niet experimenteel bepaald; afgeleid van de indeling)

Hydrocarbon : Yes

1-Tetradecene polymer with 1-dodecene, distn. residues, hydrogenated, C=24 □ 56 fraction (883233-48-5)

Viscosity, kinematic : 30 mm²/s

White Mineral Oil (8042-47-5)

Viscosity, kinematic : 3 – 20.5 mm²/s (40 °C, ISO 3104: Determination of kinematic viscosity and calculation of dynamic viscosity, Niet experimenteel bepaald; afgeleid van de indeling)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

1-Tetradecene polymer with 1-dodecene, distn. residues, hydrogenated, C=36 □ 84 fraction (883233-91-8)

LC50 - Fish [1] : > 100 mg/l Source: ECAH

EC50 72h - Algae [1] : > 100 mg/l Source: ECAH

Distillates, hydrotreated heavy paraffinic (64742-54-7)

LC50 - Fish [1] : > 5000 mg/l

EC50 - Crustacea [1] : > 1000 mg/l Source: IUCLID

EC50 96h - Algae [1] : > 1000 mg/l Source: IUCLID

White Mineral Oil (8042-47-5)

LC50 - Fish [1] : > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)

12.2. Persistence and degradability

Distillates (petroleum), hydrotreated middle (64742-46-7)

Persistence and degradability : Not readily biodegradable in water.

White Mineral Oil (8042-47-5)

Persistence and degradability : Not readily biodegradable in water.

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12.3. Bioaccumulative potential

Distillates (petroleum), hydrotreated middle (64742-46-7)

Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 Source: IUCLID

Bioaccumulative potential No bioaccumulation data available.

1-Tetradecene polymer with 1-dodecene, distn. residues, hydrogenated, C=24 □ 56 fraction (883233-48-5)

Partition coefficient n-octanol/water (Log Pow) 11.71 Source: ECHA

Distillates, hydrotreated heavy paraffinic (64742-54-7)

Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 Source: IUCLID

White Mineral Oil (8042-47-5)

BCF - Other aquatic organisms [1] 1216 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)

Partition coefficient n-octanol/water (Log Pow) 5.18 (Experimental value)

Bioaccumulative potential Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

12.4. Mobility in soil

Distillates (petroleum), hydrotreated middle (64742-46-7)

Ecology - soil No (test) data on mobility of the substance available.

White Mineral Oil (8042-47-5)

Surface tension No data available in the literature, Data waiving

Organic Carbon Normalized Adsorption Coefficient (Log Koc) 2.64 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

Ecology - soil Low potential for adsorption in soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated

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DOT	TDG	IMDG	IATA
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Distillates (petroleum), hydrotreated middle	64742-46-7	Present	Active	
1-Tetradecene polymer with 1-dodecene, distn. residues, hydrogenated, C=24□56 fraction	883233-48-5	Not present	-	
1-Tetradecene polymer with 1-dodecene, distn. residues, hydrogenated, C=36□84 fraction	883233-91-8	Not present	-	
Distillates, hydrotreated heavy paraffinic	64742-54-7	Present	Active	
White Mineral Oil	8042-47-5	Present	Active	

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Distillates (petroleum), hydrotreated middle (64742-46-7)

Listed on the Canadian DSL (Domestic Substances List)

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1-Tetradecene polymer with 1-dodecene, distn. residues, hydrogenated, C=24 □ 56 fraction (883233-48-5)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

1-Tetradecene polymer with 1-dodecene, distn. residues, hydrogenated, C=36 □ 84 fraction (883233-91-8)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Distillates, hydrotreated heavy paraffinic (64742-54-7)

Listed on the Canadian DSL (Domestic Substances List)

White Mineral Oil (8042-47-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Distillates (petroleum), hydrotreated middle (64742-46-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Distillates, hydrotreated heavy paraffinic (64742-54-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

White Mineral Oil (8042-47-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Revision date : 8/8/2024

Hazard Rating

- Health : 1 Slight Hazard - Irritation or minor reversible injury possible
- Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal protection : B - Safety glasses, Gloves

Safety Data Sheet (SDS), USA

Information provided in this Safety Data Sheet is considered accurate and reliable based on information issued from internal and outside sources to the best of Martin Operating Partnership L.P.'s knowledge; however, Martin Operating Partnership L.P. makes no representations, guarantees or warranties, expressed or implied, of merchantability or fitness for the particular purpose, regarding the accuracy of such information or the result to be obtained from the use thereof or as to the sufficiency of information herein presented. Martin Operating Partnership L.P. assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

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This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, Martin Operating Partnership L.P., must rely upon information provided by the material manufacturers or distributors.