

Material Safety Data Sheet	
in accordance with Annex II to Regulation (EC) No 1907/2006 (REACH), as amended	
LO/12/11	
Date of issue: 2011-08-30	Edition no. 6
Updated: 30/07/2021	

Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product identifier:

LOTOS SYNTHETIC PLUS 5W40

1.2. Relevant identified uses of the substance or mixture and uses advised against:

1.2.1. Identified applications: for use in gasoline and diesel engines in passenger cars and delivery vans.

1.2.2. Uses advised against: none.

1.3. Details of the supplier of the safety data sheet:

LOTOS Oil Sp. z o. o., 80-718 Gdansk, 135 Elbląska
 telephone number: +48 58 326 43 00, fax: +48 58 308 84 18

reach@grupalotos.pl

www.lotos.pl

1.4. Emergency telephone number:

LOTOS Fire Brigade and Company Emergency Centre: 058-308-81-99; 058-308-81-09 *round the clock*.

Section 2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification compliant with the Regulation (EC) No. 1272/2008 [CLP]:

According to the classification criteria for mixtures, and on the basis of research results and literature data, the product is not classified as causing hazard.

2.1. Label elements:

Labelling in accordance with the Regulation (EC) No. 1272/2008 [CLP]:

EUH208 Contains C14-16-18 Alkylphenol. Can cause allergic reactions.

The product is not dangerous and does not require any other cautionary labelling.

2.2. Other hazards:

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The mixture does not contain any substances an concentration equal to or greater than 0.1% included in an established list in accordance with Art. 59 sec. 1, having properties that disrupt the functioning endocrine system. The mixture does not meet the criteria for PBT or vPvB. In the case of any failure of equipment working at high temperatures and pressures, it is possible for the product to penetrate through the skin into the subcutaneous tissues; When working with hot product there is a risk of thermal burns. The product may cause irritation of the respiratory system, where present in the form of

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

oil mist or in the form of a vapour, or after ingestion. Research conducted for similar products have shown no harmful effects on the eyes or shown minimal irritation.

3.1. **Substance:** not applicable

3.2. Mixtures:

registration:	Number		Concentration [%m/m]	Substance name	Classification compliant with the CLP 1272/2008
	CAS	EC			
01-2119474889-13-XXXX	72623-87-1	276-738-4	< 30	Lubricating oils, (petroleum), hydrotreated hydrocarbons, C20-50, neutral base oil, Base oil - unspecified.	Asp. Tox. 1, H304 Carc. 1B, H350*
01-2119543726-33-XXXX	93819-94-4	298-577-9	< 1.5	Zinc salt bis[O- (6-methylheptyl)] bis [O- (sec-butyl dimethyl silyl)]bis(dithiophosphate)]	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
01-2119488911-28-XXXX	36878-20-3	253-249-4	< 1.5	Bis(nonylphenyl)amine	Aquatic Chronic 4, H413
01-2119498288-19-XXXX	no	no	< 1.5	C14-16-18 Alkylphenol.	Skin Sens. 1B, H317 Aquatic Chronic 4, H413

** DMSO < 3% (IP 346); The substance is not classified as carcinogenic due to Note L:

"Classification of the substance as carcinogen need not be applied if it can be shown that the substance contains less than 3 % DMSO extract (dimethyl sulfoxide) as measured by IP-346."

Section 4. FIRST AID MEASURES

4.1. Description of first aid measures:

By inhalation:

Symptoms: respiratory irritation caused by excessive exposure to exhausts, mists or vapours. Inhalation is unlikely due to the low vapour pressure of the substance at ambient temperature. In the event of symptoms caused by the inhalation of exhausts, mists or vapours of the product: While it is safe, move the injured to a quiet and well-ventilated place. If the patient is unconscious and:

- The injured is not breathing - make sure there are no obstructions in breathing and provide artificial respiration performed by trained personnel. If necessary, make a heart massage and get medical attention. If the injured is breathing - Place the injured in the recovery position. If it is needed, give oxygen.

If difficulty in breathing is persistent, ask your doctor.

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In the case of contact with the skin:

Symptoms: dry skin, irritation in the case of repeated or prolonged exposure. Contact with the product at high temperature can cause burns.

Remove contaminated clothing and shoes and dispose of them in a safe manner. Wash contaminated body parts with soap and water. In the event of the occurrence and persistence of the irritation, swelling or redness of the skin, ask your doctor.

When using high pressure percutaneous injections may occur. In the case of injury caused by high pressure immediately seek medical attention. Do not wait for the symptoms to become worse.

Light burns should be cooled: Hold the burned body part under cold water for at least five minutes or until relieving pain. Be sure to prevent hypothermia. Do not put ice on the burns. Carefully remove the non-sticking clothing. DO NOT attempt to remove portions of clothing stuck to the burned skin. Clothing around these places should be cut.

In any case of serious burns ask your doctor.

After eye contact:

Symptoms: slight irritation. Contact with the product at high temperature can cause burns.

Carefully rinse with water for several minutes. If it is possible and easy to do, remove contact lenses of the injured. Continue to rinse. In the event of the occurrence and persistence of irritation, blurred vision, or swelling, please refer to the specialist.

In the case of eye splash with hot product, they must be cool immediately under cold, running water to dissipate the accumulated heat. Immediately consult your doctor on the assessment of the condition and subsequent treatment of the injured.

Ingestion / aspiration:

Symptoms: expected not many or no symptoms. Nausea and diarrhoea may possibly appear.

If swallowed, always assume that inhalation/aspiration has taken place. Ask for help from a specialist or refer the patient to the hospital. Do not wait for the symptoms to become worse. Do not induce vomiting because there is a risk of aspiration. Do not give anything by mouth to an unconscious person.

If vomiting occurs, the injured's head should be kept low to avoid penetration of vomit into the lungs (aspiration). After the cessation of vomiting, put the injured in the recovery position, with legs slightly raised.

4.2. **Most important, both acute and delayed symptoms and effects of exposure:** A brief summary of information on acute and delayed symptoms and effects of exposure: Not determined.

4.3. **Indication of any immediate medical attention and special treatment needed:** information on clinical indications and medical monitoring for delayed effects: Not determined.

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Section 5. FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media:

- Foam (trained personnel only)
- Water mist (trained personnel only)
- Dry chemical powder
- Carbon dioxide
- Other inert gases (according to the law)
- Sand or earth

Unsuitable extinguishing media:

Do not spray directly on the burning product; substances can cause splatter and spread of fire. One should prevent the simultaneous use of foam and water on the same surface as water destroys the foam.

5.2. Special hazards arising from the substance or mixture:

Products of combustion: Incomplete burning often causes a complex mixture of solid and fluid particles floating in the air and gases, including carbon monoxide and unidentified organic and inorganic compounds.

5.3. Advice for fire-fighters:

In the case of a large fire or fires in confined or poorly ventilated areas one should also use full fire resistant protective clothing and a self contained breathing apparatus with full face mask operating on the principle of hypertension.

Section 6. ACCIDENTAL RELEASE MEASURES

General Information:

Stop or control the leak at source if it is safe. Avoid direct contact with the spilled material. Stand against the wind. With the exception of small spills. If possible, the feasibility of any action in each case should be evaluated and assessed by a properly trained and competent person in charge of rescue operations. If it is safe, eliminate all sources of flash (e.g. electricity, sparks, fire, torches). If necessary, notify relevant authorities in accordance with applicable regulations.

6.1. Personal precautions, protective equipment and emergency procedures:

6.1.1. For non-emergency personnel: Keep personnel not participating in the action away from the site of the leak. Alert emergency personnel.

6.1.2. For emergency responders:

Clothing and equipment: Small spills: usually adequate standard anti-static clothing is appropriate. Significant spills: full suit of anti-static material resistant to chemical agents.

Work gloves provide effective protection against chemicals, especially aromatic hydrocarbons. Note: gloves made of polyvinyl chloride are not waterproof and therefore not suitable for use in an emergency. Hard hat. Anti-static, anti-skid safety shoes (long or short). Safety goggles or face shield, if splash or other eye contact with them is

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possible or expected. Respiratory protection will be necessary only in special cases (e.g. the formation of mists). Depending on the amount of spilled material and the estimated range of exposure one can use half-mask or full mask respirator with combined dust filters / filter vapours of organic substances or self contained breathing apparatus. If you can not fully assess the situation, or if there is a risk of oxygen deficiency, only self contained breathing apparatus should be used.

6.2. **Measures for environmental protection:** Prevent product from entering sewers, rivers and other bodies of water or the underground (tunnels, basements, etc.).

6.3. Methods and materials for containment and cleaning up:

6.3.1. Recommendations for preventing the spread of the spill:

On the ground: If necessary, surround the product with dry dike earth, sand or other non-combustible material. Significant spills may be carefully covered with foam (if available) to reduce the risk of fire. Do not use direct stream. Use with adequate ventilation inside buildings or in confined spaces.

On the surface of water: For small spills into closed waters (i.e. port waters), protect the product with floating barriers or other equipment. Collect the spilled product using special floating absorbents. As far as possible, large spills in open waters should be controlled using floating barriers or other mechanical means. If this is not possible, it is necessary to control the spread of the spill and collect the product by skimming or other suitable mechanical means.

6.3.2. Recommendations for the elimination of leakage:

On the ground: Absorb the spilled product with suitable, non-flammable materials. Collect the unbound product with available means. Transfer the collected product and other contaminated materials to appropriate tanks or containers for recovery or disposal in a safe manner. In the case of soil contamination, the contaminated layer should be removed and undergo treatment, in accordance with local regulations.

On the surface of water: Collect the recovered product and other materials to the respective tanks or containers for recovery or disposal in a safe manner.

6.3.3. Information on improper methods of containment: not specified.

6.4. **Reference to other sections:** Additional information on individual protection measures - see section 8. Additional information on waste - see section 13.

Section 7. HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling:

7.1.1. Recommendations for safe use:

While working with the product, follow the general rules and regulations of health and safety and fire protection. Keep it away from heat / sparks / open flames / hot surfaces . Use and store only outdoors or in a well-ventilated place. Avoid contact with the product. Avoid release to the environment.

7.1.2. Advice on general occupational hygiene:

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Ensure the implementation of appropriate disciplinary action. Do not allow the accumulation of contaminated materials in the workplace or to keep them in pockets. Keep away from food and beverages. During use of the product one must not eat, drink or smoke. After working with the substance thoroughly wash your hands. When you have finished, remove contaminated clothing.

7.2. Conditions for safe storage, including information about any incompatibilities:

Protect against electrostatic charges. Avoid sudden pouring (with splash) of large quantities of hot product in liquid form. Avoid contact with the skin. Avoid inhalation of fumes / fog. Do not swallow. Avoid the risk of slipping. If necessary, use appropriate personal protective equipment. For more information on protection measures, see 8.2.

Plan of the storage site, the design of the tank and equipment and operating procedures must comply with the relevant European, national and local provisions. Installations for the storage of substances should be equipped with the right embankment to protect the land and water from contamination in the case of leaks or spills. Cleaning, inspection and maintenance of interior storage tanks may only be made by suitably equipped and qualified people in accordance with national, local or company provisions. Keep away from oxidising agents.

Recommended materials for the manufacture of tanks or layout: mild steel, including stainless steel. Unsuitable Materials: Some synthetic materials may be unsuitable for the production of containers and their layout depending on the specifications and the intended use of the material. Compliance should be agreed with the manufacturer.

If the product is provided in a container: Keep it only in the original packaging or in a container suitable for this type of product. Keep containers tightly closed and properly labelled. Empty containers may contain flammable product residues. Empty containers must not be welded, drilled, cut or burn, unless they have been properly cleaned.

7.3. Specific end use (s): none.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters:

8.1.1. Exposure limit values NDS:

	NDS [mg/m ³]	NDSch [mg/m ³]	NDSP [mg/m ³]	Notes
Highly refined mineral oils with the exception of cutting fluids - inhalable fraction	5	-	-	NDS PL

8.1.2. Information on currently recommended monitoring procedures:

Follow the regulations on monitoring air quality and the following Polish standards: PN-Z-04008-7:2002 "Principles of air sampling in the work environment and the interpretation of results"

8.1.3. DNEL and PNEC values: no data.

8.2. Exposure control

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8.2.1. Appropriate engineering controls:

Use general ventilation of rooms and local exhaust ventilation removing vapour from emission places. General ventilation exhaust should be in the upper part of the room and at the floor, and local ventilation at the working level or below. Local ventilation is essential for the formation of mists and vapours.

8.2.2. Individual protection measures, such as personal protective equipment:

a) the face or eyes protection: use protective goggles and, in the case of splashing hazard, a full cover of the head, face and neck.

b) skin protection: in order to minimize the potential risk, the use of protective clothing and oil resistant gloves (e.g. nitrile) and footwear adapted to contact with hot objects are recommended.

c) respiratory protection: no protection is required, however, do not inhale vapours. If there is a risk of exposure to the risk of concentrated vapours or mist generation, use a protective mask with A filter.

d) thermal hazard: gloves should be heat-resistant and thermally insulated, if they are possible or expected to contact the product being hot.

8.2.3. Environmental exposure controls: no data.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

State of aggregation:	Liquid
Color:	light yellow to amber
Odour:	oil type
Melting / freezing point [°C]	no data
Initial boiling point and temperature range: [°C]:	no data
Flammability of materials	Under normal conditions, the mixture does not poses a fire hazard. vapors mixtures may ignite in a way explosive when temperature is exceeded the Flash Point.
Upper / lower flammability or upper / lower explosion limit	no data
Flash point	min: 210 °C (open crucible)
Temperature of self-ignition	no data
Decomposition temperature	no data
pH	No data
Kinematic viscosity	85 mm ² /s at 40°C
Solubility	Soluble in most organic solvents
Partition coefficient n-octanol / water (log KO / W):	no data
Vapor pressure [hPa]:	no data
Density or relative density at 15 ° C [g / cm³]	Does not normalize (given at certificates)
Relative vapor density	No data
Characteristics of molecules	does not apply to liquids

9.2. **Other information:** no data.

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Section 10. STABILITY AND REACTIVITY

- 10.1. **Reactivity:** In conditions of use does not show an increased reactivity.
- 10.2. **Chemical stability:** In normal conditions the product is stable.
- 10.3. **Possibility of hazardous reactions:** In conditions of use does not cause dangerous reactions.
- 10.4. **Conditions to avoid:** Avoid ignition sources and heat when in explosive atmosphere.
- 10.5. **Incompatible materials:** Strong oxidisers.
- 10.6. **Hazardous decomposition products:** At high temperatures, thermal decomposition may product. Characteristics of the resulting product will depend on the decomposition conditions. Gases and vapours can be emitted: oxides of carbon, sulphur, nitrogen, hydrogen sulphide and hydrocarbons.

Section 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

a) Acute toxicity

Based on available data, the classification criteria are not met.

b) Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Zinc salt, bis [O- (6-methylheptyl)] bis [O- (sec-butyl)] bis (dithiophosphate)]

Species: Guinea pig

Exposure time: 4 h

Result: Causes skin irritation.

Method: OECD Test Guideline 404

Test substance: Review data (analogy)

Specific concentration limits:

Skin Irrit. 2 H315 \geq 6.25 - 100%

c) Serious damage to eyes / eye irritation

Based on available data, the classification criteria are not met.

Zinc salt, bis [O- (6-methylheptyl)] bis [O- (sec-butyl)] bis (dithiophosphate)]

Species: Rabbit

Exposure time: 504 h

Result: Causes serious eye damage.

Method: 16 CFR 1500.42

Test substance: Review data (analogy)

Specific concentration limits:

Eye Irrit. 2 H319 \geq 10 - <12.5%;

Eye Dam. 1 H318 \geq 12.5 - 100%

d) Sensitization effect to the respiratory tract or skin

On the basis of the content of ingredients, the product is classified as sensitizing to the

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skin. Contains C14-16-18 Alkylphenol. May produce an allergic reaction.

Product classification based on component test data. Raw material producer part of the oil, conducted tests which showed that C14-16-18 Alkylphenol in the concentration occurring in the above-mentioned raw material does not show sensitizing properties.

e) Germ cell mutagenicity

Based on available data, the classification criteria are not met.

f) Carcinogenic effects

Based on available data, the classification criteria are not met.

g) Reproductive toxicity

Based on available data, the classification criteria are not met.

h) Toxic effects on target organs - single exposure

Based on available data, the classification criteria are not met.

i) Toxic effects on target organs - repeated exposure

Based on available data, the classification criteria are not met.

i) Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information about other hazards:

11.2.1. Endocrine Disrupting Properties: The mixture does not contain substances included in the list established in accordance with Annex I, having properties disrupting the functioning of the endocrine system

11.2.2. Other information: Not applicable.

Section 12. ECOLOGICAL INFORMATION

12.1. **Toxicity:** Based on available data, the classification criteria are not met.

12.2. **Persistence and degradability:** There is no data on the ecotoxicity of the mixture.

12.3. **Bioaccumulative potential:** No specific data. Bioconcentration factor (BCF) is not determined. Studies have shown that the BCF for petroleum products is negligible due to the low solubility in water.

12.4. **Mobility in soil:** The product accumulates on the surface of the water and if it is in large amounts, oxygen transfer into the water is decreased.

12.5. **Results of PBT and vPvB assessment:** No data

12.6. **Endocrine disrupting properties:** The mixture does not contain substances included in the list established in accordance with Annex I, having properties disrupting the functioning of the endocrine system.

12.7. **Other adverse effects.** The product does not contain substances hazardous to the ozone layer.

Section 13. DISPOSAL CONSIDERATIONS

Note: Empty containers may contain flammable product residues. Empty containers must not be welded, drilled, cut or burn, unless they have been properly cleaned.

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13.1. Waste treatment methods:

Do not empty into drains, prevent pollution of surface and groundwater and soil. Use waste containers resistant to hydrocarbons, sealed and labelled. The product that is not suitable for use or used, it should be directed to the nearest collection point of waste. External recovery and recycling of waste should comply with applicable local and / or national regulations. Disposable containers are disposed of in accordance with the current regulations concerning the management of packaging waste. In contrast, reusable packaging can be reused after cleaning.

Dispose of waste in accordance with the legal provisions.

Section 14. TRANSPORT INFORMATION

Transport type: Land transport (RID/ADR):

- 14.1. **UN number:** not applicable
- 14.2. **Proper UN shipping name:** not applicable
- 14.3. **Class (-es) of transport hazard:** not applicable
- 14.4. **Packing group:** not applicable
- 14.5. **Environmental hazards:** not applicable
- 14.6. **Special precautions for users:** not applicable
- 14.7. **Transport in bulk according to IMO instruments:** not applicable

Section 15. REGULATORY INFORMATION

The product is not dangerous according to ADR

15.1. Laws concerning the safety, health and environmental protection specific for the substance or mixture:

- 15.1.1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency (Journal of Laws EU L 396 of 30 December 2006 and amendments, Journal of Laws EU series L 136 of 29 May 2007, as amended)
- 15.1.2. Act of 25 February 2011 on chemical substances and mixtures (Journal of Laws 11.63.322 as amended)
- 15.1.3. Regulation of the European Parliament and the Council Regulation (EC) No. 1272/2008 of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006 (Journal of Laws EU L 353 of 31 December 2008, as amended).
- 15.1.4. Act of 14 December 2012 on waste (Journal of Laws of 2013, item 21, as amended)
- 15.1.5. Regulation of the Minister of Economy dated 5 October 2015 on the detailed method of dealing with waste oils (Journal of Laws 2015.1694, as amended)
- 15.1.6. Regulation of the Minister of Labour and Social Policy of 12 June 2018 on the maximum permissible concentrations and intensities of harmful factors in the work environment (Journal of Laws of of 2018. 1286 as amended)

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15.1.7. Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer (Journal of Laws of the European Union, series L, No. 286 of October 31, 2009 from late changed)

15.1.8. European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

15.2. **Chemical safety assessment:** none for the mixture.

Section 16. **OTHER INFORMATION**

Revisions' scope: The SDS has been adapted to the new template compliant with Regulation 2020/878. Change in sections 2.2, 2.3, 3.2, 9.1, 11.2, 12.6, 15.1. Present issuance of the Safety Data Sheet cancels all previous issues.

Mixture classification: In terms of health and environmental hazards, the product was classified on the basis of its components' data.

Sources of key data on which the safety data sheet is based and the possibility of obtaining further information: This safety data sheet has been prepared according to the principles set out in the REACH Regulation, using the information provided in the registration technical documentation on the basis of the available messages and written by specially appointed international organizations, and to the best of our knowledge.

Literature:

[1] Legislation applicable in Poland concerning chemical substances and mixtures.

[2] Technical conditions.

[3] Safety Data Sheets of Hazardous Substances / Mixtures and those unclassified as hazardous.

Abbreviations:

PBT – Persistent Bioaccumulable Toxic; vPvB - Very Persistent, Very Bioaccumulative; DNEL - Derived No Effect Level; PNEC - Predicted No Effect Concentration; NDS - the highest permissible concentration; STEL - the maximum instantaneous concentration; NDSP - the maximum permissible ceiling concentration; Asp. Tox. 1 - aspiration hazard, hazard category 1; Skin Irrit. H315 - Causes skin irritation.; Skin Irrit.; 2 - irritating/corrosive to the skin (category 2); Eye Dam. 1 - Serious eye damage / eye irritation, hazard category 1; Aquatic Chronic 2 - Hazardous to the aquatic environment - chronic risk, category 2; Aquatic Chronic 4 - Hazardous to the aquatic environment - chronic risk, category 4; Acute Tox. H304 - May be fatal if swallowed and enters airways; Skin Sens. 1B - Skin sensitization, hazard category 1B; H318 - Causes serious eye damage; H411 - Toxic to aquatic life with long lasting effects; H413 - May cause long lasting harmful effects to aquatic life; H317 - May cause an allergic skin reaction;

DECLARATION

The information presented in this Data Sheet reflects our best knowledge at the date of the Sheet. We notify further users and distributors that we do not assume responsibility for the improper use of our product in a manner other than recommended by us. Measures relating to health and safety, and advice in matters of environmental protection enshrined in the Sheet may not be suitable for all individuals or situations. Users should assess the suitability of the product in a safe manner and in accordance with all applicable laws and regulations. The provisions set out in the Sheet shall in no way relieve the user from the regulations governing his activity.

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