according to 29 CFR 1910.1200(g)

ADDIFLON PFPE Premium XH 2 PLUS

Revision date: 03/22/2023

Product code: 718002

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1. Identification

Product identifier

ADDIFLON PFPE Premium XH 2 PLUS

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Lubricant and additive.

Details of the supplier of the safety data sheet

Manufacturer

| ADDINOL Lube Oil GmbH | |
|--|--|
| Gebäude 4609 | |
| Am Haupttor | |
| D-06237 Leuna | |
| +49 (0) 3461 845-0 | Telefax: +49 (0) 3461 845-555 |
| info@addinol.de | |
| Application Technology | |
| www.addinol.de | |
| ADDINOL Application Technology | |
| | |
| ADDINOL Lube Oil GmbH | |
| Am Haupttor, D - 06237 Leuna | |
| +1 416-821-0398 | |
| enis.slimane@addinol.de | |
| +16479399938 available Mon - Fri, 8:00 am to | 4:30 pm EST |
| | Gebäude 4609 Am Haupttor D-06237 Leuna +49 (0) 3461 845-0 info@addinol.de Application Technology www.addinol.de ADDINOL Application Technology ADDINOL Lube Oil GmbH Am Haupttor, D - 06237 Leuna +1 416-821-0398 enis.slimane@addinol.de |

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

This mixture is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

Label elements

Additional advice on labelling

According to EC directives or the corresponding national regulations there is no labeling obligation for this product.

Hazards not otherwise classified

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information.

3. Composition/information on ingredients

<u>Mixtures</u>

Chemical characterization

Perfluoropolyether with additives.

Hazardous components

none (according to 29 CFR 1910.1200(g))

Further Information

The product does not contain any dangerous substances with concentrations reaching or exceeding the limits acc. to 1272/2008 [GHS].

DMSO-Extrakt < 3 %, IP 346.

according to 29 CFR 1910.1200(g)

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Classification system: The classification corresponds to the current US lists and is completed by information from specialist literature and company information.

4. First-aid measures

Description of first aid measures

General information

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

After inhalation

Not applicable because it is a solution-free paste.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Do NOT induce vomiting.

Rinse mouth thoroughly with water. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

In case of fire, the following may be released: Carbon monoxide Carbon dioxide (CO2) Pyrolysis products, toxic, containing fluorine carbon black.

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

High slip hazard because of leaking or spilled product. Avoid contact with skin, eye and clothing.

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

according to 29 CFR 1910.1200(g)

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Other information

Take up mechanically. Dispose of waste according to applicable legislation. Clean contaminated articles and floor according to the environmental legislation.

Reference to other sections

Safe handling: see section 7 Personal protection equipment (PPE): see section 8 Section 12: Ecological Information (non-mandatory) Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Keep container tightly closed in a cool place. Keep/Store only in original container.

Hints on joint storage

Keep away from food, drink and animal feed. Keep away from: Oxidizing agents.

Further information on storage conditions

Recommended storage temperature: 5 - 40°C Protect against: Heat. UV-radiation/sunlight. Frost.

8. Exposure controls/personal protection

Control parameters

Additional advice on limit values

The product does not contain any relevant quantities of substances with legally established exposure limitation.

Exposure controls





Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): EN 166

Hand protection

Tested protective gloves must be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min Suitable material: NBR (Nitrile rubber) Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min

according to 29 CFR 1910.1200(g)

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Suitable material: NBR (Nitrile rubber) Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

9. Physical and chemical properties

Information on basic physical and chemical properties

| Physical state: | Paste | | |
|--|----------------|------------------------|----------------------|
| Color: | white | | |
| Odor: | characteristic | | |
| Odour threshold: | not determined | | |
| | | | Test method |
| Melting point/freezing point: | | No data available | |
| Boiling point or initial boiling point and | | not determined | |
| boiling range: | | | |
| Flammability: | | No data available | |
| Lower explosion limits: | | No data available | |
| Upper explosion limits: | | No data available | |
| Flash point: | | >350 °C | DIN EN ISO 2592 |
| Auto-ignition temperature: | | No data available | |
| Decomposition temperature: | | No data available | |
| pH-Value: | | not applicable | |
| Viscosity / kinematic: | | 420 mm²/s | DIN 51562 (Base oil) |
| (at 40 °C) | | | |
| Solubility in other solvents | | | |
| No data available | | | |
| Partition coefficient n-octanol/water: | | No data available | |
| Vapor pressure: | | No data available | |
| Density (at 20 °C): | | 1,92 g/cm ³ | |
| Relative vapour density: | | No data available | |
| Other information | | | |
| Information with regard to physical haz | ard classes | | |
| Explosive properties | | | |
| not Explosive. | | | |
| Self-ignition temperature | | | |
| Gas: | | No data available | |
| Oxidizing properties | | | |
| No data available | | | |
| Other safety characteristics | | | |
| Evaporation rate: | | No data available | |
| Pour point: | | not applicable | |
| Further Information | | | |
| No data available | | | |

10. Stability and reactivity

according to 29 CFR 1910.1200(g)

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Reactivity

The product is stable under storage at normal ambient temperatures.

Chemical stability Stability:

Stable

The mixture is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions

Hazardous reactions:

Will not occur

No known hazardous reactions.

Conditions to avoid

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

Incompatible materials

Reacts with:

Hazardous decomposition products

In case of fire, the following may be released: Carbon monoxide Carbon dioxide (CO2) Pyrolysis products, toxic, containing fluorine carbon black.

11. Toxicological information

Information on toxicological effects

Acute toxicity

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

Irritation and corrosivity

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

Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

Specific target organ toxicity (STOT) - single exposure

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

Specific target organ toxicity (STOT) - repeated exposure

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

Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

- Carcinogenicity (OSHA): No ingredient of this mixture is listed.
- Carcinogenicity (IARC): No ingredient of this mixture is listed.
- Carcinogenicity (NTP): No ingredient of this mixture is listed.

Aspiration hazard

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

Information on other hazards

Endocrine disrupting properties

not applicable

12. Ecological information

Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

Bioaccumulative potential

No data available

according to 29 CFR 1910.1200(g)

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Mobility in soil

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

No data available

Further information

Do not allow uncontrolled discharge of product into the environment.

| 13. Disposal considerations | 13. | Dis | osal | consid | erations |
|-----------------------------|-----|-----|------|--------|----------|
|-----------------------------|-----|-----|------|--------|----------|

Waste treatment methods

Disposal recommendations

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be disposed of.

14. Transport information

| US | DOT | 49 | CFR | 172.101 | |
|----|-----|----|-----|---------|--|

| Proper shipping name: | No dangerous good in sense of these transport regulations. |
|----------------------------------|--|
| Marine transport (IMDG) | |
| UN number or ID number: | - |
| UN proper shipping name: | - |
| Transport hazard class(es): | - |
| Packing group: | - |
| Air transport (ICAO-TI/IATA-DGR) | |
| <u>UN number or ID number:</u> | - |
| UN proper shipping name: | - |
| Transport hazard class(es): | - |
| Packing group: | - |
| Environmental hazards | |
| ENVIRONMENTALLY HAZARDOUS: | No |
| Special precautions for user | |

Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

not applicable

Other applicable information

No dangerous good in sense of these transport regulations.

15. Regulatory information

U.S. Regulations

National Inventory TSCA

Substance/product listed in the following inventories: TSCA

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or

according to 29 CFR 1910.1200(g)

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other reproductive harm.

16. Other information

| Hazardous Materials Information | on Label (HMIS) |
|---------------------------------|-----------------|
| Health: | 0 |
| Flammability: | 1 |
| Physical Hazard: | 0 |
| NFPA Hazard Ratings | |
| Health: | 0 |
| Flammability: | 1 |
| Reactivity: | 0 |
| Unique Hazard: | |
| Changes | |
| | |



| Revision date: | 03/22/2023 |
|----------------|------------|
| Revision No: | 1,07 |

This data sheet contains changes from the previous version in section(s): 5,6,7,8,9,10,12,14,15,16.

Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN -European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ASTM - American Society for the Testing of Materials: ATE - Acute Toxicity Estimates: bw - Body weight: CAO -Cargo Aircraft Only: CAS - Chemical Abstracts Service: CMR - Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation: DNEL - Derived No-Effect Level: DOT -Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN -European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n;o;s; - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT -Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail; RQ -Reportable Quantity; SADT - Self- Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

Other data

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

according to 29 CFR 1910.1200(g)

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)