

Safety Data Sheet

according to 29 CFR 1910.1200(g)

ADDINOL Special Oil XH 220 A

Revision date: 02/10/2022

Product code: 766010

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1. Identification**Product identifier**

ADDINOL Special Oil XH 220 A

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**

Company name: ADDINOL Lube Oil GmbH
Gebäude 4609
Street: Am Haupttor
Place: D-06237 Leuna
Telephone: +49 (0) 3461 845-0
e-mail: info@addinol.de
Contact person: Application Technology
Internet: www.addinol.de
Responsible Department: ADDINOL Application Technology

Telefax: +49 (0) 3461 845-555

Supplier

Company name: ADDINOL Lube Oil GmbH
Street: Am Haupttor, D - 06237 Leuna
Telephone: +1 647 939 9938
e-mail: laura.nelson@addinol.de

Emergency phone number: +16479399938 available Mon - Fri, 8:00 am to 4:30 pm EST**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

Reproductive toxicity: Repr. 2

Specific target organ toxicity repeated or prolonged exposure: STOT RE 2

This mixture is classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

Label elements**29 CFR Part 1910.1200****Signal word:** Warning**Pictograms:****Hazard statements**

Suspected of damaging fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

If exposed or concerned: Get medical advice/attention.

Store locked up.

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Additional advice on labelling

Product is classified and labelled in accordance with EC regulations or the corresponding national laws.

Hazards not otherwise classified

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

Spilled product must not leak into the ground.

Do not allow uncontrolled discharge of product into the environment.

3. Composition/information on ingredients**Mixtures****Hazardous components**

CAS No	Components	Quantity
9003-29-6	Polybutenes	20 - 40 %
68937-41-7	Triaryl phosphate isopropylated	< 2,5 %

Further Information

DMSO-Extrakt < 3 %, IP 346.

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

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

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

First Aid, decontamination, treatment of symptoms.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

Foam. Extinguishing powder Carbon dioxide (CO2) Water spray

Unsuitable extinguishing media

Strong water jet

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Specific hazards arising from the chemical

In case of fire, the following may be released: Carbon monoxide. Carbon dioxide (CO₂). Sulphur oxides. Nitrogen oxides (NO_x). Phosphorus oxides. 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.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****General advice**

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear respiratory protection when in the presence of vapor, dust, and aerosols. Avoid contact with skin, eye and clothing. Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

Methods and material for containment and cleaning up**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. 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**

Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist. If handled uncovered, arrangements with local exhaust ventilation have to be used. 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 absorption 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. Reducing agent

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Further information on storage conditions

Protect against: UV-radiation/sunlight. Frost. Heat.

Recommended storage temperature: 5 - 40°C

8. Exposure controls/personal protection**Control parameters****Additional advice on limit values**

Recommended limit value for oil mist

TWA: 5

STEL: 10

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

Exposure controls**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment**Eye/face protection**

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

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

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Breathing protection with filter against organic gases and vapours type A - boiling point > 65°C: A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm

9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state:	liquid
Color:	yellow
Odor:	characteristic
Odour threshold:	not determined

Test method

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Changes in the physical state

Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	not determined
Pour point:	-39 °C ASTM D 7346
Flash point:	275 °C DIN EN ISO 2592

Flammability

Solid/liquid:	No data available
Gas:	No data available

Explosive properties

No data available

Lower explosion limits:	No data available
Upper explosion limits:	No data available
Auto-ignition temperature:	not determined

Self-ignition temperature

Solid:	No data available
Gas:	No data available

Decomposition temperature: No data available

pH-Value: No data available

Viscosity / kinematic:
(at 40 °C) 224 mm²/s ASTM D 7042

Water solubility: practically insoluble.

Solubility in other solvents

No data available

Partition coefficient n-octanol/water: No data available

Vapor pressure: No data available

Density (at 15 °C): 0,938 g/cm³ DIN 51757

Relative vapour density: No data available

Other information**Information with regard to physical hazard classes**Oxidizing properties
No data available**Other safety characteristics**

Evaporation rate: No data available

Further Information

No data available

10. Stability and reactivity**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

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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: Oxidizing agents, strong. Acid.

Hazardous decomposition productsIn case of fire, the following may be released: Carbon monoxide. Carbon dioxide (CO₂). Sulphur oxides. Nitrogen oxides (NO_x). Phosphorus oxides. carbon black.**11. Toxicological information****Information on toxicological effects****Acute toxicity**

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

Mixture not tested.

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
9003-29-6	Polybutenes				
	oral	LD50 > 10000 mg/kg	Rat	Study report (1986)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1996)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 4820 mg/l	Rat		
68937-41-7	Triaryl phosphate isopropylated				
	dermal	LD50 > 10000 mg/kg	Rabbit	Study report (1976)	other: 16 CFR 1500.40

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

Suspected of damaging fertility or the unborn child (Triaryl phosphate isopropylated)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: 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

May cause damage to organs through prolonged or repeated exposure (Triaryl phosphate isopropylated)

Prolonged/repetitive skin contact may cause skin defatting 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

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12. Ecological information**Ecotoxicity**

No data available

Mixture not tested.

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

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**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**U.S. 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)**UN number or ID number:**

-

UN proper shipping name:

-

Transport hazard class(es):

-

Packing group:

-

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

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

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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:

National regulatory information

SARA Section 311/312 Hazards:

Triaryl phosphate isopropylated (68937-41-7): Delayed (chronic) health hazard

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

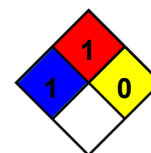
This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information**Hazardous Materials Information Label (HMIS)**

Health:	1
Flammability:	1
Physical Hazard:	0

NFPA Hazard Ratings

Health:	1
Flammability:	1
Reactivity:	0
Unique Hazard:	

**Changes**

Revision date: 10.02.2022

Revision No: 1,23

This data sheet contains changes from the previous version in section(s): 9,12.

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

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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

This mixture is classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

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.

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