



**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**ADDINOL AquaPower Multi-Purpose Grease**

Revision date: 02/11/2021

Product code: 721409

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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****Mixtures****Hazardous components**

CAS No	Components	Quantity
68457-79-4	Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts	1 - < 2,5 %

**Further Information**

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

Provide fresh air. In case of persistent complaints seek medical advice.

**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**

Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Sand. alcohol resistant foam

**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 (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>). Sulphur oxides 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. Do not allow to enter into surface water or drains.

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### 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, eyes and clothes.

#### Environmental precautions

Do not allow to enter into surface water or drains.

#### Methods and material for containment and cleaning up

##### 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 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.

##### 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

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**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

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:	green
Odor:	characteristic
Odour threshold:	not determined

**Test method****Changes in the physical state**

Melting point/freezing point:	> 150 °C
Boiling point or initial boiling point and boiling range:	> 250 °C
Flash point:	> 200 °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:	No data available

**Self-ignition temperature**

Solid:	No data available
Gas:	No data available

Decomposition temperature: No data available

pH-Value: not applicable

Viscosity / kinematic: 800 mm<sup>2</sup>/s DIN 51562 - Base oil  
(at 40 °C)

Water solubility: practically insoluble.

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**Solubility in other solvents**

No data available

Partition coefficient n-octanol/water:

No data available

Vapor pressure:

No data available

Density (at 20 °C):

0,930 g/cm<sup>3</sup> 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****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

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.

**Hazardous decomposition products**In case of fire, the following may be released: Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>).

Sulphur oxides Phosphorus oxides. carbon black.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

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

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
68457-79-4	Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts				
	oral	LD50 mg/kg	3600	Rat	Study report (1979) other: 16CFR1500.3

**Irritation and corrosivity**

Causes serious eye irritation

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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#### 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 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

#### Further information

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

## 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.

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**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

**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

**National regulatory information**

SARA Section 311/312 Hazards:

Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts (68457-79-4): Immediate (acute) 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: 0

Flammability: 1

Physical Hazard: 0

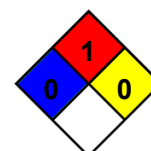
**NFPA Hazard Ratings**

Health: 0

Flammability: 1

Reactivity: 0

Unique Hazard: 0

**Changes**

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Revision date: 11.02.2021

Revision No: 1,03

This data sheet contains changes from the previous version in section(s): 1,3,4,5,6,7,8,9,10,11,14,15,16.

**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.

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