

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**ADDINOL Addisolv D**

Revision date: 06/21/2021

Product code: 716010

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**1. Identification****Product identifier**

ADDINOL Addisolv D

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

:

**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	Telefax: +49 (0) 3461 845-555
e-mail:	info@addinol.de	
Contact person:	Application Technology	
Internet:	www.addinol.de	
Responsible Department:	ADDINOL Application Technology	

**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**

Flammable liquids: Flam. Liq. 4

Aspiration hazard: Asp. Tox. 1

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

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

Combustible liquid

May be fatal if swallowed and enters airways

**Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

If swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting.

Store in a well-ventilated place.

Store locked up.

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Dispose of contents/container to industrial incineration plant.

**Additional advice on labelling**

The product is classified and labelled according to EC directives or corresponding national laws.

**Hazards not otherwise classified**

The vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars.

Special danger of slipping by leaking/spilling product.

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

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

CAS No	Components	Quantity
246538-76-1	Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	60 - 70 %
246538-78-3	Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics	15 - 35 %
1174522-15-6	Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics	15 - 35 %

**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. Rub greasy ointment into the skin. Take off immediately all 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**

Following ingestion: Cough. Dyspnoea.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically. Where appropriate artificial ventilation. Regulation of the blood circulation, possible

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shock treatment. Subsequent observance for pneumonia and lung oedema.

### 5. Fire-fighting measures

#### Extinguishing media

##### **Suitable extinguishing media**

Foam. Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Water spray Water mist

##### **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>). carbon black.

The vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars.

#### 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 measures**

High slip hazard because of leaking or spilled product. Do not breathe gas/fume/vapor/spray. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothes. Provide adequate ventilation. Wear respiratory protection when in the presence of vapor, dust, and aerosols.

#### 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. Use only antistatically equipped (spark-free) tools. Avoid contact with skin, eyes and clothes.

##### **Advice on protection against fire and explosion**

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

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**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. Provide adequate ventilation as well as local exhaust at critical locations. Take precautionary measures against static discharges.

**Hints on joint storage**

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

**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**

de-aromatised hydrocarbon mixtures (group 1): 200 ml/m<sup>3</sup> (TRGS 900)

**Exposure controls****Appropriate engineering controls**

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

**Protective and hygiene measures**

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.

**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

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

Physical state:	liquid
Color:	colorless,
Odor:	characteristic
Odour threshold:	not determined

**Test method**

pH-Value: not applicable

**Changes in the physical state**

Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	182 - 215 °C DIN EN ISO 3405
Flash point:	61 °C DIN EN ISO 2719

**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: &gt; 200 °C DIN 51794

**Self-ignition temperature**

Solid:	No data available
Gas:	No data available

Decomposition temperature: No data available

**Oxidizing properties**

No data available

Vapor pressure: No data available  
(at 20 °C)Density (at 15 °C): 0,765 g/cm<sup>3</sup> DIN 51757

Water solubility: practically insoluble.

**Solubility in other solvents**

No data available

Partition coefficient n-octanol/water: No data available

Viscosity / kinematic: 1,9 mm<sup>2</sup>/s DIN 51562  
(at 20 °C)

Relative vapour density: No data available

Evaporation rate: No data available

**Other information**

No data available

**10. Stability and reactivity****Reactivity**

The product is stable under storage at normal ambient temperatures.

**Chemical stability**

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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**

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>).  
carbon black.**11. Toxicological information****Information on toxicological effects****Acute toxicity**

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

**ATEmix tested**

	Dose	Species	Source
LD50, oral	> 5000 mg/kg	Rat	OECD 401
LD50, dermal	> 5000 mg/kg	Rabbit	OECD 402

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
246538-76-1	Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1995)	OECD Guideline 401
	dermal	LD50 > 2200 - 2500 mg/kg	Rabbit	Study report (1961)	Standard acute method, applying 4 differ
246538-78-3	Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1995)	OECD Guideline 401
	dermal	LD50 > 2200 - 2500 mg/kg	Rabbit	Study report (1961)	Standard acute method, applying 4 differ
1174522-15-6	Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1989)	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1993)	OECD Guideline 402

**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.

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**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.

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**

May be fatal if swallowed and enters airways

**Information on other hazards****Endocrine disrupting properties**

not applicable

**12. Ecological information****Ecotoxicity**

: ELO 1000 mg/L (48 h)

Pseudokirchneriella subcapitata: ELO 1000 mg/L (72 h)

Pseudokirchneriella subcapitata: NOELR 1000 mg/L (72 h)

Oncorhynchus mykiss (Rainbow trout): LLO 1000 mg/L (96 h)

The statement is derived from products of similar structure or composition.

**Persistence and degradability**

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

**Mobility in soil**

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

**Endocrine disrupting properties**

not applicable

**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****US DOT 49 CFR 172.101****Proper shipping name:**

No dangerous good in sense of these transport regulations.

**Marine transport (IMDG)**

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**UN number:** -**UN proper shipping name:** -**Transport hazard class(es):** -**Packing group:** -**Air transport (ICAO-TI/IATA-DGR)****UN 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:

Hydrocarbons, C11-C12, isoalkanes, &lt; 2% aromatics (246538-76-1): Fire 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

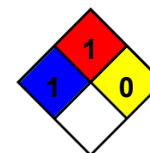
**NFPA Hazard Ratings**

Health: 1

Flammability: 1

Reactivity: 0

Unique Hazard:

**Changes**

Revision date: 06/21/2021

Revision No: 1,39

This data sheet contains changes from the previous version in section(s): 4,5,6,7,9,10,11,12,14,15,16.

**Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety



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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 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.

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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.)*