

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Addisolv D

Revision date: 05.06.2024

Product code: 716010

Page 2 of 11

Hazard statements

- H304 May be fatal if swallowed and enters airways.
 H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements

- P273 Avoid release to the environment.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P331 Do NOT induce vomiting.
 P405 Store locked up.
 P501 Dispose of contents/container to industrial incineration plant.

Special labelling of certain mixtures

- EUH066 Repeated exposure may cause skin dryness or cracking.

Additional advice on labelling

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

2.3. Other hazards

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Special danger of slipping by leaking/spilling product.

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics			30 - 70 %
	918-167-1		01-2119472146-39	
	Flam. Liq. 3, Asp. Tox. 1; H226 H304 EUH066			
246538-78-3	Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics			30 - 70 %
	920-901-0		01-2119456810-10	
	Asp. Tox. 1; H304 EUH066			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
	918-167-1	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	30 - 70 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg		
246538-78-3	920-901-0	Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics	30 - 70 %
	dermal: LD50 = > 2200 - 2500 mg/kg; oral: LD50 = > 5000 mg/kg		

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Addisolv D

Revision date: 05.06.2024

Product code: 716010

Page 3 of 11

Further Information

DMSO-Extract < 3 %; IP 346. Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

SECTION 4: First aid measures

4.1. 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. Change contaminated clothing. In case of skin irritation, seek medical treatment.

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.

4.2. Most important symptoms and effects, both acute and delayed

Following ingestion: Cough. Dyspnoea.

4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Extinguishing powder. Carbon dioxide (CO₂). Water fog.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂).

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

5.3. Advice for firefighters

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

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

High slip hazard because of leaking or spilled product. Do not breathe gas/fumes/vapour/spray. Remove all

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Addisolv D

Revision date: 05.06.2024

Product code: 716010

Page 4 of 11

sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. 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).

6.3. 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.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Section 12: Ecological Information (non-mandatory)

Disposal: see section 13

SECTION 7: Handling and storage

7.1. 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.

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.

7.2. 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 exhaustion at critical locations. Take precautionary measures against static discharges. Keep/Store only in original container.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agent

Further information on storage conditions

Protect against: UV-radiation/sunlight. frost. heat.

Recommended storage temperature: 5 - 40°C

7.3. Specific end use(s)

Further information: see technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Addisolv D

Revision date: 05.06.2024

Product code: 716010

Page 5 of 11

DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics		
Worker DNEL, long-term	inhalation	systemic	7 mg/m ³
Worker DNEL, long-term	dermal	systemic	4 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,7 mg/m ³
Consumer DNEL, long-term	dermal	systemic	2 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,5 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment	Value	
	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	
Freshwater	0,026 mg/l	
Freshwater (intermittent releases)	0,263 mg/l	
Marine water	0,003 mg/l	
Freshwater sediment	0,344 mg/kg	
Marine sediment	0,034 mg/kg	
Micro-organisms in sewage treatment plants (STP)	100 mg/l	
Soil	0,053 mg/kg	

Additional advice on limit values

Recommended limit value for oil mist

TWA: 5 mg/m³STEL: 10 mg/m³**8.2. 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): EN 166

Hand protection

Tested protective gloves are to 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.

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Addisolv D

Revision date: 05.06.2024

Product code: 716010

Page 6 of 11

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

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	colourless, clear
Odour:	characteristic
Odour threshold:	not determined

	Test method
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	182 - 215 °C DIN EN ISO 3405
Flammability:	No data available
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Flash point:	61 °C DIN EN ISO 2719
Auto-ignition temperature:	> 200 °C DIN 51794
Decomposition temperature:	No data available
pH-Value:	not applicable
Viscosity / kinematic: (at 20 °C)	1,9 mm ² /s ASTM D 7042
Water solubility:	virtually insoluble OECD 105
Solubility in other solvents	
No data available	
Partition coefficient n-octanol/water:	No data available
Vapour pressure:	No data available
Density (at 15 °C):	0,765 g/cm ³ DIN 51757
Relative vapour density:	No data available
Particle characteristics:	No data available

9.2. Other information**Information with regard to physical hazard classes**

Explosive properties

No data available

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate:

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

The product is stable under storage at normal ambient temperatures.

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Addisolv D

Revision date: 05.06.2024

Product code: 716010

Page 7 of 11

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

Do not overheat to avoid decomposition by heat.

10.5. Incompatible materials

Reacts with: Oxidising agent, strong

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂). carbon black.

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****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

ATEmix calculated

ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1995)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2016)	OECD Guideline 402
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

Irritation and corrosivity

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

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Repeated exposure may cause skin dryness or cracking.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

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

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

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Addisolv D

Revision date: 05.06.2024

Product code: 716010

Page 8 of 11

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

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

not applicable

SECTION 12: Ecological information

12.1. Toxicity

May cause long lasting harmful effects to aquatic life.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics					
	Acute fish toxicity	LC50 mg/l	26,3	96 h	Oncorhynchus mykiss	REACH Registration Dossier OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 59,6	72 h	Raphidocelis subcapitata	REACH Registration Dossier OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	84,91	48 h	Daphnia magna	REACH Registration Dossier OECD Guideline 202
	Fish toxicity	NOEC mg/l	>= 100	32 d	Pimephales promelas	REACH Registration Dossier OECD Guideline 210
	Crustacea toxicity	NOEC	> 1 mg/l	21 d	Daphnia magna	REACH Registration Dossier OECD Guideline 211
	Acute bacteria toxicity	EC50 mg/l ()	> 1000	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier OECD Guideline 209
246538-78-3	Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics					
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Raphidocelis subcapitata	REACH Registration Dossier OECD Guideline 201
	Fish toxicity	NOEC mg/l	0,217	28 d	Oncorhynchus mykiss	REACH Registration Dossier The aquatic toxicity was estimated by a
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna	REACH Registration Dossier OECD Guideline 211

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	1,15
246538-78-3	Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics	>= 1,99

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Addisolv D

Revision date: 05.06.2024

Product code: 716010

Page 9 of 11

BCF

CAS No	Chemical name	BCF	Species	Source
	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	>= 6,91	calculated	REACH Registration D
246538-78-3	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	>= 6,91	calculated	REACH Registration D

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. 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.

12.7. Other adverse effects

No data available

Further information

Do not allow uncontrolled leakage of product into the environment.

SECTION 13: Disposal considerations

13.1. 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 thrown away.

SECTION 14: Transport information

Land transport (ADR/RID)

- 14.1. UN number or ID number: -
- 14.2. UN proper shipping name: -
- 14.3. Transport hazard class(es): -
- 14.4. Packing group: -

Inland waterways transport (ADN)

- 14.1. UN number or ID number: -
- 14.2. UN proper shipping name: -
- 14.3. Transport hazard class(es): -
- 14.4. Packing group: -

Marine transport (IMDG)

- 14.1. UN number or ID number: -
- 14.2. UN proper shipping name: -
- 14.3. Transport hazard class(es): -
- 14.4. Packing group: -

Air transport (ICAO-TI/IATA-DGR)

- 14.1. UN number or ID number: -
- 14.2. UN proper shipping name: -
- 14.3. Transport hazard class(es): -
- 14.4. Packing group: -

14.5. Environmental hazards

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Addisolv D

Revision date: 05.06.2024

Product code: 716010

Page 10 of 11

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

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

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 2,3,4,5,7,8,9,10,11,12,14,15.

Abbreviations and acronyms

Flam. Liq: Flammable liquids

Asp. Tox: Aspiration hazard

Aquatic Chronic: Chronic aquatic hazard

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

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Addisolv D

Revision date: 05.06.2024

Product code: 716010

Page 11 of 11

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Asp. Tox. 1; H304	Calculation method
Aquatic Chronic 4; H413	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

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.

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