

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WM 910

Revision date: 24.10.2023

Product code: 770101

Page 1 of 12

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

ADDINOL Penta-Cool WM 910

UFI: 6MSS-76TY-C20D-MEHU

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Metal working fluids.

1.3. 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:	GEM OILS LIMITED	
Place:	IRL-H12K298 Regaskin Co. Cavan	
Telephone:	+353 49 4378116	Telefax: +353 49 4368329
e-mail:	sales@gemoils.ie	
Contact person:	GEM OILS LIMITED	Telephone: +353 49 4378116
e-mail:	sales@gemoils.ie	
Internet:	https://gemoils.ie/	

1.4. Emergency telephone number:

Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Skin Irrit. 2; H315
 Eye Irrit. 2; H319
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements**Regulation (EC) No 1272/2008**

Signal word: Warning

Pictograms:

**Hazard statements**

H315 Causes skin irritation.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WM 910

Revision date: 24.10.2023

Product code: 770101

Page 2 of 12

H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container to industrial incineration plant.

Special labelling of certain mixtures

EUH208 Contains 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate. May produce an allergic reaction.

Additional advice on labelling

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

2.3. Other hazards

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.
Spilled product must not leak into the ground.
Do not allow uncontrolled leakage of product into the environment.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether			2.5 - < 5 %
	203-961-6	603-096-00-8		
	Eye Irrit. 2; H319			
78-96-6	1-aminopropan-2-ol; isopropanolamine			2.5 - < 5 %
	201-162-7	603-082-00-1	01-2119475331-43	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1; H312 H314 H318			
101-83-7	dicyclohexylamine			1 - < 2.5 %
	202-980-7	612-066-00-3		
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H400 H410			
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate			0.1 - < 0.3 %
	259-627-5	616-212-00-7		
	Acute Tox. 3, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H331 H302 H318 H317 H372 H400 H410			

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WM 910

Revision date: 24.10.2023

Product code: 770101

Page 3 of 12

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	2.5 - < 5 %
		dermal: LD50 = 2764 mg/kg; oral: LD50 = 2410 mg/kg	
78-96-6	201-162-7	1-aminopropan-2-ol; isopropanolamine	2.5 - < 5 %
		dermal: ATE = 1100 mg/kg; oral: LD50 = 2813 mg/kg	
101-83-7	202-980-7	dicyclohexylamine	1 - < 2.5 %
		dermal: LD50 = 200 - 316 mg/kg; oral: LD50 = 200 mg/kg	
55406-53-6	259-627-5	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate	0.1 - < 0.3 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: LC50 = > 6,89 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1795 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1	

Further Information

DMSO-Extrakt < 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. Change contaminated clothing. Protect skin by using skin protective cream. 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

No information available.

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. Atomized water. Carbon dioxide (CO₂).

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 dioxide (CO₂). Carbon monoxide Nitrogen oxides (NO_x). Phosphorus oxides. carbon black.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WM 910

Revision date: 24.10.2023

Product code: 770101

Page 4 of 12

5.3. Advice for firefighters

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

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. Remove all sources of ignition. 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. 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.

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. 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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WM 910

Revision date: 24.10.2023

Product code: 770101

Page 5 of 12

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	
		15	101.2		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
78-96-6	1-aminopropan-2-ol; isopropanolamine			
Consumer DNEL, long-term		inhalation	systemic	0,88 mg/m ³
Consumer DNEL, acute		inhalation	systemic	0,88 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,51 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	0,51 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	3,6 mg/m ³
Consumer DNEL, long-term		oral	systemic	0,28 mg/kg bw/day

PNEC values

CAS No	Substance	Value
78-96-6	1-aminopropan-2-ol; isopropanolamine	
Freshwater		0,032 mg/l
Freshwater (intermittent releases)		0,323 mg/l
Marine water		0,003 mg/l
Freshwater sediment		0,226 mg/kg
Marine sediment		0,023 mg/kg
Micro-organisms in sewage treatment plants (STP)		3,3 mg/l
Soil		0,026 mg/kg

Additional advice on limit values

source:

Recommended limit value for cooling lubricants (steam and aerosol)

MAK: 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WM 910

Revision date: 24.10.2023

Product code: 770101

Page 6 of 12

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.

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. full mask (DIN EN 136). Cosaint riospráide le scagaire i gcoinne gás orgánach agus gaile cineál A - fiuchphointe > 65 ° C: A1: <1000 ppm; A2: <5000 ppm; A3: <10,000 ppm.

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

Physical state:	liquid
Colour:	yellow - light brown
Odour:	like: mineral oil.
Odour threshold:	not determined

	Test method
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	> 100 °C
Flammability:	No data available
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	100 °C DIN EN ISO 2592
Auto-ignition temperature:	No data available DIN 51794
Decomposition temperature:	No data available
pH-Value (at 20 °C):	9,9 5% - DIN 51369
Viscosity / kinematic: (at 20 °C)	220 mm ² /s DIN EN ISO 3104
Water solubility:	highly soluble.
Solubility in other solvents	
No data available	
Partition coefficient n-octanol/water:	No data available
Vapour pressure:	No data available
Density (at 15 °C):	0,952 g/cm ³ DIN EN ISO 12185
Relative vapour density:	No data available

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WM 910

Revision date: 24.10.2023

Product code: 770101

Page 7 of 12

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

Pour point:

-5 °C ISO 3016

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

The product is stable under storage at normal ambient temperatures.

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

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

10.5. Incompatible materials

Reacts with : Oxidising agent, strong.

10.6. Hazardous decomposition productsIn case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide Nitrogen oxides (NO_x). Phosphorus oxides. carbon black.

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

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

ATEmix calculated

ATE (oral) 27777,8 mg/kg; ATE (dermal) 37931,0 mg/kg; ATE (inhalation vapour) 1250,00 mg/l; ATE (inhalation dust/mist) 208,333 mg/l

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WM 910

Revision date: 24.10.2023

Product code: 770101

Page 8 of 12

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether				
	oral	LD50 2410 mg/kg	Mouse	Study report (1981)	OECD Guideline 401
	dermal	LD50 2764 mg/kg	Rabbit	Study report (1981)	OECD Guideline 402
78-96-6	1-aminopropan-2-ol; isopropanolamine				
	oral	LD50 2813 mg/kg	Rat	Study report (1965)	OECD Guideline 401
	dermal	ATE 1100 mg/kg			
101-83-7	dicyclohexylamine				
	oral	LD50 200 mg/kg	Rat	Other company data (1978)	Single oral application by gavage, undil
	dermal	LD50 200 - 316 mg/kg	Rabbit	Other company data (1977)	other:
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate				
	oral	LD50 1795 mg/kg	Rat	Study report (1984)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1991)	EPA OPP 81-2
	inhalation vapour	ATE 3 mg/l			
	inhalation (4 h) dust/mist	LC50 > 6,89 mg/l	Rat	Study report (1985)	OECD Guideline 403

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

Contains 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

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.

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

Aspiration hazard

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

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

not applicable

SECTION 12: Ecological information**12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WM 910

Revision date: 24.10.2023

Product code: 770101

Page 9 of 12

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether					
	Acute fish toxicity	LC50 1300 mg/l	96 h	Lepomis macrochirus	J Haz Mat, 1, p303-18 (1977)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	96 h	Desmodesmus subspicatus	Study report (1992)	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	Study report (1992)	EU Method C.2
78-96-6	1-aminopropan-2-ol; isopropanolamine					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Leuciscus idus	Study report (1987)	other: German industrial standard test g
	Acute algae toxicity	ErC50 32,3 mg/l	72 h	Desmodesmus subspicatus	Study report (1989)	other: German industrial standard test g
	Acute crustacea toxicity	EC50 108,82 mg/l	48 h	Daphnia magna	Study report (1987)	Method: other: Directive 79/831/EEC, Ann
	Acute bacteria toxicity	(EC50 > 261 mg/l)	0,5 h	Activated sludge	Study report (1978)	Method: other
101-83-7	dicyclohexylamine					
	Acute fish toxicity	LC50 62 mg/l	96 h	Danio rerio	Study report (1992)	EU Method C.1
	Acute algae toxicity	ErC50 > 1 mg/l	72 h	Desmodesmus subspicatus	Other company data (1992)	EU Method C.3
	Acute crustacea toxicity	EC50 8 mg/l	48 h	Daphnia magna	Study report (1999)	OECD Guideline 202
	Crustacea toxicity	NOEC 0,016 mg/l	21 d	Daphnia magna	Study report (1999)	other: OECD Guideline 202, part 2 "Daphn
	Acute bacteria toxicity	(EC50 712 mg/l)	3 h	Activated sludge	Study report (1990)	ISO 8192
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate					
	Acute algae toxicity	ErC50 0,022 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	OECD Guideline 201
	Fish toxicity	NOEC 0,0084 mg/l	35 d	Pimephales promelas	REACH Registration Dossier	EPA OPP 72-4
	Crustacea toxicity	NOEC 0,0499 mg/l	21 d	Daphnia magna	REACH Registration Dossier	EPA OPP 72-4
	Acute bacteria toxicity	(EC50 44 mg/l)	3 h	activated sludge, domestic	REACH Registration Dossier	EU Method C.11

12.2. Persistence and degradability

Part of the components is biodegradable.

12.3. Bioaccumulative potential

No data available

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WM 910

Revision date: 24.10.2023

Product code: 770101

Page 10 of 12

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	1
78-96-6	1-aminopropan-2-ol; isopropanolamine	-0,93
101-83-7	dicyclohexylamine	2,724
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate	2,81

BCF

CAS No	Chemical name	BCF	Species	Source
78-96-6	1-aminopropan-2-ol; isopropanolamine	2,69		SAR and QSAR in Envi
101-83-7	dicyclohexylamine	459		BCFWIN v. 2.1 (2005)

12.4. Mobility in soil

Is eliminable from water only with difficulty.

12.5. Results of PBT and vPvB assessment

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

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.

List of Wastes Code - residues/unused products

120107 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; mineral-based machining oils free of halogens (except emulsions and solutions); hazardous waste

List of Wastes Code - used product

120109 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; machining emulsions and solutions free of halogens; hazardous waste

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: -

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WM 910

Revision date: 24.10.2023

Product code: 770101

Page 11 of 12

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

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 55

National regulatory information

Water hazard class (D): 2 - obviously 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): 2,9,11,13,15.

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WM 910

Revision date: 24.10.2023

Product code: 770101

Page 12 of 12

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

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate. May produce an allergic reaction.

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