

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WS 250

Revision date: 15.07.2021

Product code: 770035

Page 2 of 10

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
55406-53-6	3-Iodo-2-propynyl butylcarbamate			< 0,25 %
	259-627-5		01-2120762115-60	
	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			
10043-35-3	boric acid			< 5,50 %
	233-139-2	005-007-00-2		
	Repr. 1B; H360FD			

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	
55406-53-6	259-627-5	3-Iodo-2-propynyl butylcarbamate	< 0,25 %
		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 M akut; H400: M=10 M chron.; H410: M=1	
10043-35-3	233-139-2	boric acid	< 5,50 %
		inhalation: LC50 = > 2,12 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 3450 mg/kg Repr. 1B; H360FD: >= 5,5 - 100	

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. 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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WS 250

Revision date: 15.07.2021

Product code: 770035

Page 3 of 10

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Extinguishing powder. Carbon dioxide (CO₂). Sand. Atomized water.

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). Nitrogen oxides (NO_x). carbon black.

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/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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid contact with skin, eye and clothing.

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. Ventilate affected area.

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

Avoid contact with skin, eyes and clothes. Keep/Store only in original container.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agents.

Further information on storage conditions

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

Recommended storage temperature: 5 - 40°C

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WS 250

Revision date: 15.07.2021

Product code: 770035

Page 4 of 10

7.3. Specific end use(s)

Further information: see technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance	DNEL type	Exposure route	Effect	Value
55406-53-6	3-Iodo-2-propynyl butylcarbamate	Worker DNEL, long-term	inhalation	systemic	0,023 mg/m ³
		Worker DNEL, acute	inhalation	systemic	0,07 mg/m ³
		Worker DNEL, long-term	inhalation	local	1,16 mg/m ³
		Worker DNEL, acute	inhalation	local	1,16 mg/m ³
		Worker DNEL, long-term	dermal	systemic	2 mg/kg bw/day
10043-35-3	boric acid	Worker DNEL, long-term	inhalation	systemic	8,3 mg/m ³
		Worker DNEL, long-term	dermal	systemic	392 mg/kg bw/day
		Consumer DNEL, long-term	inhalation	systemic	4,15 mg/m ³
		Consumer DNEL, long-term	dermal	systemic	196 mg/kg bw/day
		Consumer DNEL, long-term	oral	systemic	0,98 mg/kg bw/day
		Consumer DNEL, acute	oral	systemic	0,98 mg/kg bw/day

PNEC values

CAS No	Substance	Environmental compartment	Value
55406-53-6	3-Iodo-2-propynyl butylcarbamate	Freshwater	0,001 mg/l
		Freshwater (intermittent releases)	0,001 mg/l
		Marine water	0 mg/l
		Freshwater sediment	0,017 mg/kg
		Marine sediment	0,002 mg/kg
		Micro-organisms in sewage treatment plants (STP)	0,44 mg/l
		Soil	0,005 mg/kg
10043-35-3	boric acid	Freshwater	2,9 mg/l
		Freshwater (intermittent releases)	13,7 mg/l
		Marine water	2,9 mg/l
		Micro-organisms in sewage treatment plants (STP)	10 mg/l
		Soil	5,7 mg/kg

Additional advice on limit values

source:

Recommended limit value for cooling lubricants (steam and aerosol)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WS 250

Revision date: 15.07.2021

Product code: 770035

Page 5 of 10

MAK: 10 mg/m³**8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation as well as local exhaustion 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 protectionTested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374
Protect skin by using skin protective cream.**Skin protection**

Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

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

Physical state:	liquid
Colour:	various colors
Odour:	characteristic

	Test method
pH-Value (at 20 °C):	9,1 4% - DIN 51369

Changes in the physical state

Melting point:	-20 °C
Boiling point or initial boiling point and boiling range:	> 100 °C

Flash point:	not determined
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Sustaining combustion:	UN Test L.2
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Flammability

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

not Explosive.

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

Solid:	No data available
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Gas:	No data available
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Decomposition temperature:	No data available
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Oxidizing properties

Not oxidising.

Vapour pressure:	No data available
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Density (at 20 °C):	1,117 g/cm ³ DIN EN ISO 12185
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Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WS 250

Revision date: 15.07.2021

Product code: 770035

Page 6 of 10

Water solubility:	highly soluble.
Solubility in other solvents	
No data available	
Partition coefficient n-octanol/water:	No data available
Viscosity / kinematic: (at 20 °C)	20 mm ² /s DIN EN ISO 3104
Relative vapour density:	No data available
Evaporation rate:	No data available

9.2. Other information

No data available

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 : Oxidizing agents, strong.

10.6. Hazardous decomposition products

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

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.

Mixture not tested.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WS 250

Revision date: 15.07.2021

Product code: 770035

Page 7 of 10

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
55406-53-6	3-Iodo-2-propynyl butylcarbamate				
	oral	LD50 mg/kg	1795	Rat	Study report (1984) OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rabbit	Study report (1991) EPA OPP 81-2
	inhalation vapour	ATE	3 mg/l		
	inhalation (4 h) aerosol	LC50 mg/l	> 6,89	Rat	Study report (1985) OECD Guideline 403
10043-35-3	boric acid				
	oral	LD50 mg/kg	3450	Rat	Toxicology and Applied Pharmacology 23: Boric acid was administered orally by ga
	dermal	LD50 mg/kg	> 2000	Rabbit	Study report (1982) other: FIFRA
	inhalation (4 h) aerosol	LC50 mg/l	> 2,12	Rat	Study report (1997) OECD Guideline 403

Irritation and corrosivity

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

Irritant effect on the eye: mild irritant.

Irritant effect on the skin: Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

Sensitising effects

Contains 3-Iodo-2-propynyl 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**

No data available

Mixture not tested.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WS 250

Revision date: 15.07.2021

Product code: 770035

Page 8 of 10

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
55406-53-6	3-Iodo-2-propynyl butylcarbamate					
	Acute algae toxicity	ErC50 mg/l	0,022	72 h	Desmodesmus subspicatus	REACH Registration Dossier OECD Guideline 201
	Fish toxicity	NOEC mg/l	0,0084	35 d	Pimephales promelas	REACH Registration Dossier EPA OPP 72-4
	Crustacea toxicity	NOEC mg/l	0,0499	21 d	Daphnia magna	REACH Registration Dossier EPA OPP 72-4
	Acute bacteria toxicity	(44 mg/l)		3 h	activated sludge, domestic	REACH Registration Dossier EU Method C.11
10043-35-3	boric acid					
	Acute fish toxicity	LC50 mg/l	79,7	96 h	Pimephales promelas	Study report (2010) other: ASTM E729-95 Standard Guide for C
	Acute algae toxicity	ErC50	66 mg/l	72 h	Phaeodactylum tricornutum	Study report (2011) ISO 10253
	Acute crustacea toxicity	EC50	93 mg/l	48 h	Ceriodaphnia dubia	Study report (2010) other: ASTM E729-95 Standard Guide for C
	Fish toxicity	NOEC	11,2 mg/l	32 d	Pimephales promelas	Study report (2010) other: ASTM E1241-05 Standard Guide for
	Algae toxicity	NOEC mg/l	17,5	3 d	Pseudokirchneriella subcapitata	Study report (2000) OECD Guideline 201
	Crustacea toxicity	NOEC mg/l	33,1	28 d	Americamysis bahia	Study report (2011) EPA OPPTS 850.1350
	Acute bacteria toxicity	(> 175 mg/l)		3 h	Activated sludge	Study report (2000) OECD Guideline 209

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

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
55406-53-6	3-Iodo-2-propynyl butylcarbamate	2,81
10043-35-3	boric acid	-1,09

BCF

CAS No	Chemical name	BCF	Species	Source
10043-35-3	boric acid	0,7 - 1,4	Crassostrea gigas	Water Research Vol.

12.4. Mobility in soil

Is eliminable from water only with difficulty.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WS 250

Revision date: 15.07.2021

Product code: 770035

Page 9 of 10

12.6. Endocrine disrupting properties

not applicable

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

120110 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; synthetic machining oils; 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:** -**14.2. UN proper shipping name:** -**14.3. Transport hazard class(es):** -**14.4. Packing group:** -**Inland waterways transport (ADN)****14.1. UN number:** -**14.2. UN proper shipping name:** -**14.3. Transport hazard class(es):** -**14.4. Packing group:** -**Marine transport (IMDG)****14.1. UN 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:** -**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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Penta-Cool WS 250

Revision date: 15.07.2021

Product code: 770035

Page 10 of 10

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**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
boric acid

Restrictions on use (REACH, annex XVII):

Entry 30

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): 4,5,6,7,9,10,11,12,15,16.

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).

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H360FD	May damage fertility. May damage the unborn child.
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.
EUH208	Contains 3-Iodo-2propynyl butylcarbamate. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Further Information

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.)