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Safety Data Sheet

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008 Revision date: 27-May-2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name: CC- 12

Article number: 494 - 496

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

Product categories [PC]: PC25 – Metal working fluids

Sector of uses [SU]: SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

Environmental release categories [ERC]: ERC4 – Industrial use of processing aids in processes and products, not becoming part of articles

1.3. Details of the supplier of the safety data sheet

Homberg + Brusius e.K.

Auf der Lay 31

55743 Kirschweiler, Germany

Tel. +49 6781 35036

HombergBrusius@web.de

www.homberg-und-brusius.de

1.4. Emergency telephone number

Notfallinformationsdienst: +49 221 - 76 80 79 - 0

Nur während folgender Dienstzeiten erreichbar: Montag - Freitag, 08:00 - 16:30 Uhr

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Chronic aquatic toxicity Category 3 - (H412)

2.2. Label elements

Hazard statements:

H412 - Harmful to aquatic life with long lasting effects.

EU Specific Hazard Statements:

EUH208 - Contains 3-Iodo-2-propynyl butylcarbamate May produce an allergic reaction.

Precautionary Statements - EU (§28, 1272/2008):

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

Harmful to aquatic life.

PBT & vPvB: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture

contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine Disruptor Information: This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

alkanolamines, carboxylates, inhibitors

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS-No	EC No (EU Index No)	REACH-registration-number	Classification according to regulation (EC) No 1272/2008 (CLP)	Weight-%
Distillates, petroleum, hydrotreated light naphthenic	64742-53-6	(649-466-00-2) 265-156-6	01-2119480375-34	Asp. Tox. 1 (H304)	25 - < 50
Tolyl triazole	29385-43-1	249-596-6	01-2119979081-35	Acute Tox. 4 (H302) Repr. 2 (H361d) Aquatic Chronic 2 (H411)	0.1 - < 0.25
3-Iodo-2-propynyl butylcarbamate	55406-53-6	259-627-5 (616-212-00-7)	01-2120762115-60	Acute Tox. 4 (H302) Skin Sens. 1 (H317) Eye Dam. 1 (H318) Acute Tox. 3 (H331) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	0.1 - < 0.25
Boric acid (H3BO3)	10043-35-3	(005-007-00-2) 233-139-2	01-2119486683-25	Repr. 1B (H360FD)	0.1 - < 0.25

Chemical name	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	notes
Distillates, petroleum, hydrotreated light naphthenic 64742-53-6				(L)
3-Iodo-2-propynyl butylcarbamate 55406-53-6		10	1	

Acute Toxicity Estimate:

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD 50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/l	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Distillates, petroleum, hydrotreated light naphthenic 64742-53-6	5005	2002	5.6	No data available	No data available
Tolyl triazole 29385-43-1	720	4000	No data available	No data available	No data available
3-Iodo-2-propynyl butylcarbamate 55406-53-6	1470	2002	0.67	3	No data available
Boric acid (H3BO3) 10043-35-3	2660	2002	0.1602	No data available	No data available

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemische Bezeichnung	CAS-Nr.	SVHC-Kandidaten
Boric acid	10043-35-3	X

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Remove to fresh air.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact: Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Ingestion: Rinse mouth.

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

Symptoms No information available.

Effects of Exposure No information available.

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

Note to physicians: Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing measures that are appropriate to local circumstances Suitable Extinguishing Media: and the surrounding environment.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical: No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Ensure adequate ventilation.

For emergency responders: Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions: See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections: See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling



Advice on safe handling: Ensure adequate ventilation.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Other information: No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits:

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Boric acid (H3BO3) 10043-35-3			TWA: 2 mg/m ³ STEL: 6 mg/m ³	TWA: 5.0 mg/m ³	
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
3-Iod-2-propinylbutylcarbamate 55406-53-6		TWA: 0.005 ppm TWA: 0.058 mg/m ³ Sh+	TWA: 0.005 ppm TWA: 0.058 mg/m ³ Peak: 0.01 ppm Peak: 0.116 mg/m ³ skin sensitizer		
Boric acid (H3BO3) 10043-35-3		TWA: 0.005 ppm	TWA: 10 mg/m ³ Peak: 10 mg/m ³		
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Boric acid (H3BO3) 10043-35-3	TWA: 2 mg/m ³ STEL: 6 mg/m ³		TWA: 2 mg/m ³ STEL: 6 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
3-Iod-2-propinylbutylcarbamate 55406-53-6				TWA: 0.058 mg/m ³ TWA: 0.005 ppm STEL: 0.01 ppm STEL: 0.116 mg/m ³	
Boric acid (H3BO3) 10043-35-3	TWA: 2 mg/m ³ STEL: 6 mg/m ³			TWA: 0.5 mg/m ³ STEL: 1.0 mg/m ³	TWA: 2 mg/m ³ STEL: 6 mg/m ³
Chemical name	Sweden	Switzerland	United Kingdom	Russia	Turkey
3-Iodo-2-propinylbutylcarbamate 55406-53-6		TWA: 0.01 ppm TWA: 0.12 mg/m ³ STEL: 0.02 ppm STEL: 0.24 mg/m ³			
Boric acid (H3BO3) 10043-35-3		TWA: 1.8 mg/m ³ STEL: 1.8 mg/m ³		MAC: 10 mg/m ³	

Biological occupational exposure limits:

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL): component information:

Worker - inhalative:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Distillates, petroleum, hydrotreated light naphthenic	2.73 mg/m ³		5.58 mg/m ³	
Tolyl triazole	8.8 mg/m ³			
3-Iodo-2-propinylbutylcarbamate	0.023 mg/m ³	0.07 mg/m ³	1.16 mg/m ³	1.16 mg/m ³
Boric acid (H3BO3)	8.3 mg/m ³			

Worker - dermal:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Distillates, petroleum, hydrotreated light naphthenic	0.97 mg/kg bw/day			
Tolyl triazole	0.5 mg/kg bw/day			
3-Iodo-2-propynyl butylcarbamate	2 mg/kg bw/day			
Boric acid (H3BO3)	392 mg/kg bw/day			

Consumer - inhalative:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Distillates, petroleum, hydrotreated light naphthenic			1.19 mg/m ³	
Tolyl triazole	4.4 mg/m ³			
Boric acid (H3BO3)	4.15 mg/m ³			

Consumer - dermal:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Tolyl triazole	0.25 mg/kg bw/day			
Boric acid (H3BO3)	196 mg/kg bw/day			

Consumer - oral:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Distillates, petroleum, hydrotreated light naphthenic	0.74 mg/kg bw/day			
Tolyl triazole	0.25 mg/kg bw/day	0.25 mg/kg bw/day		
Boric acid (H3BO3)	0.98 mg/kg bw/day	0.98 mg/kg bw/day		

Predicted No Effect Concentration (PNEC):

component information:

Chemical name	Distillates, petroleum, hydrotreated light naphthenic CAS: 64742-53-6
Food chain	9.33 mg/kg food
Chemical name	Tolyl triazole CAS: 29385-43-1
Freshwater	0.008 mg/L
Marine water	0.008 mg/L
Freshwater (intermittent release)	0.086 mg/L
Sewage treatment	39.4 mg/L
Freshwater sediment	0.0025 mg/kg sediment dw
Marine water sediment	0.0025 mg/kg sediment dw
Soil	0.0024 mg/kg soil dw
Chemical name	Boric acid (H3BO3) CAS: 10043-35-3
Freshwater	2.9 mg/L
Marine water	2.9 mg/L
Freshwater (intermittent release)	13.7 mg/L
Sewage treatment	10 mg/L
Soil	5.7 mg/kg soil dw

8.2. Exposure controls

Engineering controls: None under normal use conditions.

Personal protective equipment: The usual precautionary measures for the handling of chemicals have to be observed.



Eye/face protection: If splashes are likely to occur, wear safety glasses with side-shields.

PPE - Glove material	Glove thickness	Break through time
Butyl caoutchouc (butyl rubber)	0.5 mm	>=480 min.

Skin and body protection: No special protective equipment required.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Recommended Filter Type: Filtering device (full mask or mouthpiec) with filter: AP-2

Environmental exposure controls: No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid
 Color yellow
 Odor characteristic

				Conditions	Method	Remarks
Melting point/melting range						Not established
Boiling point/boiling range	>	100	°C			
Flammability						Not established
Decomposition temperature						Not relevant
Flash point						Not established
Autoignition temperature						None known
Lower explosive limit						Not relevant
Upper explosionlimit						Not relevant
Vapor pressure	>	1100	hPa	50 °C		
Density	circa	0,97	g/cm ³	20 °C		
Water solubility						Emulsifiable
pH						Not applicable
pH (as aqueous solution)						Solution (5%)
Partition coefficient						Not established
Kinematic viscosity	>	20,5	mm ² /s	40 °C		
Odor threshold						Not established
Relative density						Not established
Evaporation rate						Not established
Relative vapor density	No	Data	available			
Particle Size	No	Information	Available			
Particle Size Distribution	No	Information	available			

9.2. Other information

Bulk density: No data available
Softening point No information available
Molecular weight No information available

9.2.1. Information with regard to physical hazard classes:

Explosive properties Not applicable
Oxidizing properties Not applicable

9.2.2. Other safety characteristics: No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: No information available.

10.2. Chemical stability

Stability: Stable under normal conditions.

Explosion data:

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: None under normal processing.

10.4. Conditions to avoid

Conditions to avoid: None known based on information supplied.

10.5. Incompatible materials

Incompatible materials: None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products: None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure:

Product Information: The product has not been tested

Inhalation: Specific test data for the substance or mixture is not available.

Eye contact: Specific test data for the substance or mixture is not available.

Skin contact: Specific test data for the substance or mixture is not available.

Ingestion: Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: No information available.

Numerical measures of toxicity:

Acute toxicity: The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral): 40,020.00 mg/kg

ATEmix (dermal): 4,064.80 mg/kg

ATEmix (inhalation-dust/mist): 418.80 mg/l

ATEmix (inhalation-vapor): 1,875.00 mg/l

Component Information:

Chemical name	Parameter	Species	Effective Dose	Method
Distillates, petroleum, hydrotreated light naphthenic 64742-53-6	Oral LD50	Rat	> 5000 mg/kg	
Tolyl triazole 29385-43-1	Oral LD50	Rat	720 mg/kg	
3-Iodo-2-propynyl butylcarbamate 55406-53-6	Oral LD50	Rat	1470 mg/kg	

Boric acid (H3BO3) 10043-35-3	Oral LD50	Rat	2660 mg/kg	
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Chemical name	Parameter	Species	Effective Dose	Method
Distillates, petroleum, hydrotreated light naphthenic 64742-53-6	Dermal LD50	Rabbit	> 2000 mg/kg	
Tolyl triazole 29385-43-1	Dermal LD50	Rabbit	> 4000 mg/kg	
3-Iodo-2-propynyl butylcarbamate 55406-53-6	Dermal LD50	Rat	> 2000 mg/kg	
Boric acid (H3BO3) 10043-35-3	Dermal LD50	Rabbit	> 2000 mg/kg	

Chemical name	Parameter	Species	Effective Dose	Exposure time	Method
Distillates, petroleum, hydrotreated light naphthenic 64742-53-6	Inhalation LC50	Rat	> 5.53 mg/L	4 h	
Tolyl triazole 29385-43-1	Inhalation LC50	Rat	> 1.73 mg/L	1 h	
3-Iodo-2-propynyl butylcarbamate 55406-53-6	Inhalation LC50	Rat	0.67 mg/L	4 h	
Boric acid (H3BO3) 10043-35-3	Inhalation LC50	Rat	> 0.16 mg/L	4 h	

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation: No information available.
 Serious eye damage/eye irritation: No information available.
 Respiratory or skin sensitization: No information available.
 Germ cell mutagenicity: No information available.
 Carcinogenicity: No information available.

Reproductive toxicity: Based on available data, the classification criteria are not met.
 The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins

Chemical name	European Union
Boric acid (H3BO3)	Repr. 1B

STOT - single exposure: No information available.
 STOT - repeated exposure: No information available

Chemical name	Exposure route	Target Organs
3-Iodo-2-propynyl butylcarbamate 55406-53-6	Inhalation	Larynx

Aspiration hazard: No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No information available.

11.2.2. Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity: Harmful to aquatic life with long lasting effects.

fish toxicity:

Chemical name	Parameter	Species	Effective Dose	Exposure time	Method
Distillates, petroleum,	LC50	Oncorhynchus	> 5000 mg/L	96 h	

hydrotreated light naphthenic 64742-53-6		mykiss			
Tolyl triazole 29385-43-1	LC50	Cyprinodon variegatus	55 mg/L	4 d	
3-Iodo-2-propynyl butylcarbamate 55406-53-6	LC50	Oncorhynchus mykiss	0.05 - 0.089 mg/L	96 h	
Boric acid (H3BO3) 10043-35-3	LC50	Pimephales promelas	456 mg/L	96 h	

toxicity to crustacea:

Chemical name	Parameter	Species	Effective Dose	Exposure time	Method
Distillates, petroleum, hydrotreated light naphthenic 64742-53-6	EC50	Daphnia magna	> 1000 mg/L	48 h	
Tolyl triazole 29385-43-1	EC50	Daphnia magna	8.58 mg/L	48 h	OECD 202
Boric acid (H3BO3) 10043-35-3	EC50	Daphnia magna	760 mg/L	48 h	

Algae Toxicity:

Chemical name	Parameter	Species	Effective Dosis	Exposure time	Method
Methyl-1H-benzotriazol 29385-43-1	EC50	Sceletonema costatum	53 mg/L	72 h	DIN ISO 10253
Boric acid (H3BO3) 10043-35-3	EC50	Pseudokirchneriella subcapitata	229 mg/L	72 h	

Bacteria toxicity:

Chemical name	Parameter	Species	Effective Dose	Exposure time	Method
Tolyl triazole 29385-43-1	EC50		330 mg/L	0,1 d	

12.2. Persistence and degradability

Persistence and degradability:

Chemical name	Degradation rate	Test duration	Rapidly biodegradable	Remarks	Method
Tolyl triazole 29385-43-1	59 - 77 %	28 d	no		

12.3. Bioaccumulative potential

Bioaccumulation:

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Distillates, petroleum, hydrotreated light naphthenic 64742-53-6		< 500
Tolyl triazole 29385-43-1	1,08	2,4 L/kg
3-Iodo-2-propynyl butylcarbamate 55406-53-6	2,81	
Boric acid (H3BO3) 10043-35-3	-0,757	0

12.4. Mobility in soil

Mobility in soil: No information available.

Mobility: No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment: No information available

Chemical name	PBT and vPvB assessment
Distillates, petroleum, hydrotreated light naphthenic 64742-53-6	The substance is not PBT / vPvB
Tolyl triazole 29385-43-1	The substance is not PBT / vPvB
3-Iodo-2-propynyl butylcarbamate 55406-53-6	The substance is not PBT / vPvB
Boric acid (H3BO3) 10043-35-3	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties.

No information available.

12.7. Other adverse effects.

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products:

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV: 13 01 05* (non-chlorinated emulsions)

SECTION 14: Transport information

14.1 UN number or ID number

ADR: Not regulated

RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

14.2 UN proper shipping name

ADR: Not regulated

RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

14.3. Transport hazard class(es)

ADR: Not regulated

RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

14.4. Packing group

ADR: Not regulated

RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

14.5. Environmental hazards

ADR: Not applicable
RID: Not applicable
IMDG: Not applicable
IATA: Not applicable

14.6. Special precautions for user

ADR: Not regulated
Special Provisions: None
RID: Not regulated
Special Provisions: None
IMDG: Not regulated
Special Provisions: None
ATA: Not regulated
Special Provisions: None

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or Mixture

European Union:

Regulation (EC) No. 1907/2006 (Annex II - (EC) No. 2020/878) and Regulation (EC) No. 1272/2008
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work:

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken

Authorizations and/or restrictions on use:

- This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Substance subject to authorization per REACH Annex XIV	Restricted substance per REACH Annex XVII
3-Iodo-2-propynyl butylcarbamate 55406-53-6		75.
Boric acid (H3BO3) 10043-35-3		30. 75.

Persistent Organic Pollutants: Not applicable
(EC) 2019/1021

Ozone-depleting substances (ODS) regulation (EC) 1005/2009: Not applicable

Biocidal Products Regulation (EU) No 528/2012 (BPR):

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
3-Iodo-2-propynyl butylcarbamate 55406-53-6	Product type 8 (details in Commission Implementing Decision 2017/2334/EU) 6 - Preservatives for products during storage 13 - Working or cutting fluid preservatives 8 - Wood preservatives
Boric acid (H3BO3) 10043-35-3	Product type 8 (details in Commission Implementing Decision 2017/2334/EU) 8 - Wood preservatives

volatile organic compounds (VOC) content:

acc. reg. 2010/75/EC (20°C): 0 %

acc. reg. 2004/42/EC (Decopaint): 0 %

National regulations:

Denmark:

Chemical name	Denmark - MAL
3-Iodo-2-propynyl butylcarbamate 55406-53-6	0 m3/10 g substance MAL factor >=1.0 % by weight [3]
Boric acid (H3BO3) 10043-35-3	0 m3/10 g substance MAL factor >=0.2 % by weight [3]

Germany:

Water hazard class (WGK): obviously hazardous to water (WGK 2) - Classification according to AwSV

Chemical name	WGK Classification (AwSV)	ID number
Distillates, petroleum, hydrotreated light naphthenic 64742-53-6	1	435
Tolyl triazole 29385-43-1	2	1449
3-Iodo-2-propynyl butylcarbamate 55406-53-6	3	5207
Boric acid (H3BO3) 10043-35-3	1	315

TA Luft (German Air Pollution Control Regulation):

total dust incl. fine dust (digit 5.2.1): < 5%

org. substances (Ziffer 5.2.5): 45 - 50%

org. subst. dust (digit 5.2.5): < 5%

org. subst. (digit 5.2.5) class I: < 5%

reptox. subst. (Digit 5.2.7.1.3): < 5%

Storage class (TRGS 510): LGK12 - Non-combustible liquids

Netherlands:

Chemical name	Distillates, petroleum, hydrotreated light naphthenic
ZZS-Liste: SVHC	x (classification as a carcinogen according to CLP does not apply if it can be shown that the substance contains less than 3% DMSO extract measured according to IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. However, the substance can still be a SVHC. For example, other components in it can be harmful to reproduction or be PBT (Persistent, Bioaccumulative and Toxic). To conclude that the substance is not a SVHC, it must be clear that it does not contain any of these components)

Chemical name	Boric acid (H3BO3)
Niederlande - Liste der Reproduktionstoxine	Fertility Category 1B Development Category 1B
ZZS-Liste: SVHC	x ()

Water contaminating class (Netherlands): Z1

Austria:

Flammable Liquids Regulations, VbF Not regulated

Poland:

Ordinance of the Minister of Family, Labor and Social Policy dated June 12, 2018 on the highest permissible concentrations

and intensities of harmful factors for health in the work environment (Dz. U. 2018 item 1286, as amended)

Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21; as amended)

Act on chemical substances and their mixtures of February 25, 2011. (Journal of Laws No. 63, item 322; as amended)

Regulation of the Minister of Labor and Social Policy of September 26, 1997 on general regulations of safety and hygiene at

work (Dz. U. of 2003, No. 169, item 1650; as amended).

Switzerland:

VOC content:: acc. VOCV CH 814.018, att. 1: 0 %

Hungary:

Decree No 44/2000 (XII.27.) of the Ministry of Economic Affairs and Labour of the Republic of Hungary on certain procedures

and activities Joint Decree No. 5/2020 ITM on Chemical Safety at Work 178/2017 (VII. 5.)

Government Decree on the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

„A“ and „B“ of the European Agreement on Road Transport

International Inventories:

TSCA - Does not comply

DSL/NDSL - Complies

EINECS/ELINCS - Complies

ENCS - Does not comply

IECSC - Complies

KECL - Does not comply

PICCS - Does not comply

AICS - Does not comply

NZIoC - Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

NZIoC - New Zealand Inventory of Chemicals

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report: No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet:

Full text of H-Statements referred to under section 3:

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

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

H361d - Suspected of damaging 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
H411 - Toxic to aquatic life with long lasting effects

Legend:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road
(Accord européen relatif transport des marchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)

BCF: Bio-Concentration Factor

BOD(5): Biochemical oxygen demand (within 5 days)

CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Carcinogenic, Mutagenic, toxic for Reproduction

DIN: German Standards Institute / German industrial norm

DNEL: Derived No Effect Level

DOC: Dissolved organic carbon

EAK/ AVV: European waste catalogue/ waste directory-regulation

EC50: Effective Concentration 50%

ECHA: European Chemical Agency

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association

IC50: Inhibition Concentration 50%

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal Concentration 50% - LD50: Lethal dose 50%

MAK: Treshold limit values Germany

NLP: No Longer Polymers

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

OECD: Organization for Economic Cooperation and Development

PBT: persistent, bioaccumulative, toxic

PC: Product category

PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation and Authorization of Chemicals

RID: Regulations concerning the international carriage of dangerous goods by rail

(Règlement International concernant le transport de marchandises dangereuses par chemin de fer)

STEL: Short-term Exposure Limit

STP: Sewage treatment plant

SVHC: Substance of Very High Concern

TLV: Threshold Limit Value

TWA: Time Weighted Average

UN: United Nations

VOC: Volatile Organic Compounds

vPvB: very persistent, very bioaccumulative

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ceiling: Maximum limit value

* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method used
Acute oral toxicity	Berechnungsverfahren
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method

Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS:

European Chemicals Agency (ECHA)

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Revision date: 27-May-2024

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH):

Disclaimer:

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its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation,

disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

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End of Safety Data Sheet