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-Jul-2021 **Revision Number:** 1

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

1.1. Product identifier

Product Name: **Mega 190 Protect Aqua Flächenlasur**
Article number: 031180540008

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

Product categories [PC]: PC9 - Coatings and paints, fillers, putties, thinners
Sector of uses [SU]: SU19 - Building and construction work

1.3. Details of the supplier of the safety data sheet

Supplier:
MEGA eG
Fangdieckstrasse 45
D - 22547 Hamburg
Telefon: +49 40/ 54004-0
Telefax: +49 40/ 54004-9
www.mega.de

Responsibility Statement:
Department productsector paints and coatings
Telephone: 040 54004-528
E-mail address technik@mega.de

1.4. Emergency telephone number

Emergency Telephone: +49 40 / 54004 - 528 (Mo. - Tue. 7.15 - 16.30 Uhr, Fr. bis 12.00 Uhr)

Emergency Telephone - §45 - (EC)1272/2008	
Europe	**112**
Austria	+43 1 406 43 43 (Giftinformationszentrale)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements:
EUH208 - Contains 1,2-Benzisothiazol-3(2H)-one, 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone May produce an allergic reaction.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No	EC No	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
1,2-Benzisothiazol-3(2H)-one	2634-33-5	220-120-9	01-2120761540-60	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Dam. 1 (H318) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	0.01 - < 0.05
Zinc pyrithione	13463-41-7	236-671-3	01-2119511196-46	Acute Tox. 3 (H301) Eye Dam. 1 (H318) Acute Tox. 2 (H330) Repr. 1B (H360D) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	0.01 - < 0.05
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone	55965-84-9	611-341-5 911-418-6	01-2120764691-48	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Skin Corr. 1B (H314) Skin Sens. 1A (H317) Eye Dam. 1 (H318) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071)	0.0005 - < 0.001

Chemical name	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Skin Sens. 1 :: C>=0.05%			
Zinc pyrithione 13463-41-7		1000	10	
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	Skin Corr. 1C :: C>=0.6% Skin Irrit. 2 :: 0.06%<=C<0.6% Eye Dam. 1 :: C>=0.6% Eye Irrit. 2 :: 0.06%<=C<0.6% Skin Sens. 1A :: C>=0.0015%	100	100	

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 LD50 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
1,2-Benzisothiazol-3(2H)-one	490	2000	0.0501	0.501	No data available

2634-33-5					
Zinc pyrithione 13463-41-7	177	100	0.0501	3	No data available
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	457	660	0.0501	0.501	No data available

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.

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

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances 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	Austria	Switzerland	Poland	Norway	Ireland	Russia
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	TWA: 0.05 mg/m³ Sh+	S+ TWA: 0.2 mg/m³				

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
1,2-Benzisothiazol-3(2H)-one	6.81 mg/m³			
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone	0.02 mg/m³		0.02 mg/m³	0.04 mg/m³

Worker - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
1,2-Benzisothiazol-3(2H)-one	966 mg/kg bw/day			
Zinc pyrithione	0.01 mg/kg bw/day			

Consumer - inhalative:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
1,2-Benzisothiazol-3(2H)-one	1.2 mg/m³			
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone			0.02 mg/m³	0.04 mg/m³

Consumer - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
1,2-Benzisothiazol-3(2H)-one	345 mg/kg bw/day			

consumer - oral:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone	0.09 mg/kg bw/day	0.11 mg/kg bw/day		

Predicted No Effect Concentration (PNEC):

component information:

Chemical name	1,2-Benzisothiazol-3(2H)-one

Freshwater	4.03 µg/L
Marine water	0.403 µg/L
Intermittent release	1.1 µg/L
Freshwater sediment	0.0499 mg/kg dry weight
Marine sediment	0.00499 mg/kg dry weight
Soil	0.0471 mg/kg

Chemical name	Zinc pyrithione
Freshwater	0.09 µg/L
Marine water	0.09 µg/L
Freshwater sediment	0.095 mg/kg dry weight
Marine sediment	0.095 mg/kg dry weight
Soil	1.02 mg/kg dry weight

Chemical name	5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone
Freshwater	0.00339 mg/L
Marine water	3.39 µg/L
Intermittent release	3.39 µg/L
Freshwater sediment	0.027 mg/kg dry weight
Marine sediment	0.027 mg/kg dry weight
Soil	0.01 mg/kg dry weight

8.2. Exposure controls

Engineering controls: None under normal use conditions.

Personal protective equipment:

Eye/face protection: No special protective equipment required.

PPE - Glove material	Glove thickness	Break through time
NBR (Nitrile rubber)	0.4 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

Environmental exposure controls: No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance dispersion
Color beige

Odor characteristic

				Conditions	*Method*	*Remarks*
Melting point / melting range						Not established
Boiling point / boiling range	>	107	°C			
Flammability						Not established
Decomposition temperature						not relevant
Flash point						Not established
Autoignition temperature						None known
Lower explosive limit						not relevant
Upper explosion limit						not relevant
Vapor pressure	>	1100	hPa	50 °C		
Density	~	1.029	g/cm³	20 °C		
Water solubility						Miscible
pH		8 - 9		20 °C		
pH (as aqueous solution)						Not applicable
Partition coefficient						Not established
Kinematic viscosity						Not applicable
Odor threshold						Not established
Relative density						Not established
Evaporation rate						Not established
Relative vapor density	no data available					
Particle Size	no data available					
Particle Size Distribution	no data 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 an explosive
Oxidizing properties Not oxidising.

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 toxicological effects

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 (inhalation-dust/mist): 360.00 mg/l

Component Information:

Chemical name	Parameter	Species	effektive Dosis	Method
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Oral LD50	Rat	490 mg/kg	
Zinc pyrithione 13463-41-7	Oral LD50	Rat	177 mg/kg	
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	Oral LD50	Rat	457 mg/kg	

Chemical name	Parameters	Species	Effective dose	Method
Zinc pyrithione 13463-41-7	Dermal LD50	Rabbit	100 mg/kg	
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with	Dermal LD50	Rabbit	660 mg/kg	

Chemical name	Parameters	Species	Effective dose	Method
2-methyl-3(2H)-isothiazolone 55965-84-9				

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Zinc pyrithione 13463-41-7	Inhalation LC50	Rat	0.05 - 0.5 mg/L 140 mg/m³	4 h	
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	Inhalation LC50	Rat	171 - 2360 mg/m³	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: No information available.

Chemical name	European Union
Zinc pyrithione	Repr. 1B

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

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: The environmental impact of this product has not been fully investigated.

fish toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
1,2-Benzisothiazol-3(2H)-one 2634-33-5	LC50		2.15 mg/L	96 h	
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	LC50	Oncorhynchus mykiss	0.22 mg/L	96 h	OECD 203

toxicity to crustacea:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50		2.9 mg/L	48 h	
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	EC50	Daphnia magna	0.1 mg/L	48 h	OECD 202

Algae Toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50		0.11 mg/L	72 h	
Zinc pyrithione 13463-41-7	EC50		0.003 mg/L	96 h	
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	EC50	Pseudokirchneriella subcapitata	0.048 mg/L	72 h	OECD 201

Bacteria toxicity:

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50		12.8 mg/L	3 h	
Zinc pyrithione 13463-41-7	EC50		2.4 mg/L	3 h	
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	EC50	activated sludge	7.92 mg/L	3 h	

12.2. Persistence and degradability

Persistence and degradability:

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
1,2-Benzisothiazol-3(2H)-one 2634-33-5	100 %	0.04 d	Yes		OECD 307
Zinc pyrithione 13463-41-7	100 %		Yes		

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	> 60 %	28 d	Yes		OECD 301

12.3. Bioaccumulative potential

Bioaccumulation:

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	1.3	6.62
Zinc pyrithione 13463-41-7	1.12	1.4
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	< 0.71	3.16

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:

Chemical name	PBT and vPvB assessment
1,2-Benzisothiazol-3(2H)-one 2634-33-5	The substance is not PBT / vPvB
Zinc pyrithione 13463-41-7	The substance is not PBT / vPvB
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	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: 08 01 12 (waste paint and varnish other than those mentioned in 08 01 11)

SECTION 14: Transport information

14.1. UN 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 regulated
RID:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

14.6. Special precautions for user

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

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available

SECTION 15: Regulatory information

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

European Union:

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

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
1,2-Benzisothiazol-3(2H)-one 2634-33-5		75.
Zinc pyrithione 13463-41-7		75.
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9		3

Persistent Organic Pollutants: Not applicable

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

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	2 - Disinfectants and algaecides not intended for direct application to humans or animals 4 - Food and feed area disinfectant 6 - Preservatives for products during storage 11 - Preservatives for liquid-cooling and processing systems 12 - Slimicides 13 - Working or cutting fluid preservatives

volatile organic compounds (VOC) content:
acc. reg. 2010/75/EG: 2.5 %
acc. reg. 2004/42/EG (Decopaint): 27 g/L

National regulations:

Denmark:

Chemical name	Denmark - MAL
1,2-Benzisothiazol-3(2H)-one 2634-33-5	0 m3/10 g substance MAL factor >=1.0 % by weight [3]
Zinc pyrithione 13463-41-7	0 m3/10 g substance MAL factor >=1 % by weight [3]

Germany:

Water hazard class (WGK): slightly hazardous to water (WGK 1) - Classification according to AwSV

Chemical name	WGK Classification (AwSV)	ID number
1,2-Benzisothiazol-3(2H)-one 2634-33-5	2	5141
Zinc pyrithione 13463-41-7	3	7636
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	3	2959

TA Luft (German Air Pollution Control Regulation):
total dust incl. fine dust (digit 5.2.1): < 5%
org. substances (Ziffer 5.2.5): < 5%

Storage class (TRGS 510): 12 • LGK12 - Non-combustible liquids

France:

Occupational Illnesses (R-463-3, France):

Chemical name	French RG number
1,2-Benzisothiazol-3(2H)-one 2634-33-5	RG 65

RG 65 - Allergic eczema

Chemical name	Zinc pyrithione
Netherlands - List of Reproductive Toxins	Development Category 1B
ZZS list: SVHC	x ()

Austria:

Flammable Liquids Regulations, VbF: Not regulated

Switzerland:

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

International Inventories:

TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
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:
EUH071 - Corrosive to the respiratory tract
H301 - Toxic if swallowed
H302 - Harmful if swallowed
H310 - Fatal 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
H330 - Fatal if inhaled
H331 - Toxic if inhaled
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 merchandises 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	Calculation method
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

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006:

Disclaimer:
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End of Safety Data Sheet