according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Malachite green hydrochloride p.a.

article number: 7710 Version: 3.0 en Replaces version of: 02.05.2022 Version: (2)

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

Product identifier 1.1

Identification of the substance

Article number

Registration number (REACH)

CAS number

Alternative name(s)

123333-61-9

7710

Basic green 4

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

according to REACH (< 1 t/a).

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It is not required to list the identified uses because the substance is not subject to registration

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 Telefax: +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

e-mail (competent person):

sicherheit@carlroth.de

1.4 **Emergency telephone number**

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.10	Acute toxicity (oral)	3	Acute Tox. 3	H301
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.7	Reproductive toxicity	2	Repr. 2	H361fd
4.1A	Hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400

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Sectio	Hazard class	Cat- egory	Hazard class and category	Hazard statement
4.1C	Hazardous to the aquatic environment - chronic hazard	1	Aquatic Chronic 1	H410

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

Pictograms

GHS05, GHS06, GHS08, GHS09



Hazard statements

H301	Toxic if swallowed
H318	Causes serious eye damage
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P202Do not handle until all safety precautions have been read and understoodP280Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements - response

P308+P313	IF exposed or concerned: Get medical advice/attention
P391	Collect spillage

Precautionary statements - storage

P405 Store locked up

For professional users only

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger



H301	Toxic if swallowed.
H318	Causes serious eye damage.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.

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2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance	Malachite green hydrochloride
Molecular formula	$C_{23H_{26}N_2O\cdot HCl}$
Molar mass	382,9 ^g / _{mol}
CAS No	123333-61-9

Substance, Specific Conc. Limits, M-factors, ATE

Specific Conc. Limits	M-Factors	ATE	Exposure route
-	M-factor (acute) = 10	>50 ^{mg} / _{kg}	oral

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower.

Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

Rinse mouth immediately and drink plenty of water. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

4.2 Most important symptoms and effects, both acute and delayed

Risk of blindness, Risk of serious damage to eyes

4.3 Indication of any immediate medical attention and special treatment needed

none

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SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, dry extinguishing powder, ABC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible.

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically. Control of dust.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid exposure. Avoid dust formation. Clear contaminated areas thoroughly.

Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

When using do not eat or drink. Thorough skin-cleansing after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Store locked up.

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits) This information is not available.

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



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hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

NBR (Nitrile rubber)

material thickness

>0,11 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P3 (filters at least 99,95 % of airborne particles, colour code: White).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	-
Physical state	solid
Form	powder, crystalline
Colour	dark green - brown
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	not applicable
Auto-ignition temperature	not determined
Decomposition temperature	not relevant

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pH (value)	not applicable
Kinematic viscosity	not relevant
Solubility(ies)	
Water solubility	not determined
Partition coefficient	
Partition coefficient n-octanol/water (log value):	this information is not available
Vapour pressure	not determined
Density and/or relative density	
Density	not determined
Relative vapour density	Information on this property is not available.
Particle characteristics	No data available.
Other safety parameters	
Oxidising properties	none
Other information	
Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics:	There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

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SECTION 11: Toxicological information

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

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Toxic if swallowed.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Suspected of damaging the unborn child. Suspected of damaging fertility.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

Data are not available.

• If in eyes

Causes serious eye damage, risk of blindness

• If inhaled

Data are not available.

• If on skin

Data are not available.

Other information

none

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

11.3 Information on other hazards

There is no additional information.

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SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Theoretical Oxygen Demand (without nitrification): 2,298 $^{mg}/_{mg}$ Theoretical Oxygen Demand (with nitrification): 2,475 $^{mg}/_{mg}$ Theoretical Carbon Dioxide: 2,643 $^{mg}/_{mg}$

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

- **HP 4** irritant skin irritation and eye damage
- HP 6 acute toxicity
- HP 10 toxic for reproduction
- HP 14 ecotoxic

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-con-

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taminated packages may be recycled.

SECTION 14: Transport information		
14.1	UN number or ID number	
	ADR	UN 2811
	IMDG-Code	UN 2811
	ICAO-TI	UN 2811
14.2	UN proper shipping name	
	ADR	TOXIC SOLID, ORGANIC, N.O.S.
	IMDG-Code	TOXIC SOLID, ORGANIC, N.O.S.
	ICAO-TI	Toxic solid, organic, n.o.s.
	Technical name	Malachite green hydrochloride
14.3	Transport hazard class(es)	
	ADR	6.1
	IMDG-Code	6.1
	ICAO-TI	6.1
14.4	Packing group	
	ADR	III
	IMDG-Code	III
	ICAO-TI	III
14.5	Environmental hazards	hazardous to the aquatic environment
14.6	Special precautions for user	
	Provisions for dangerous goods (ADR) should be co	
14.7	Maritime transport in bulk according to IMO in	struments
	The cargo is not intended to be carried in bulk.	

14.8 Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information	
Proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.
Particulars in the transport document	UN2811, TOXIC SOLID, ORGANIC, N.O.S., (Malachite green hydrochloride), 6.1, III, (E), envir- onmentally hazardous
Classification code	T2
Danger label(s)	6.1, "Fish and tree"
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	274, 614, 802(ADN)

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Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
Transport category (TC)	2
Tunnel restriction code (TRC)	E
Hazard identification No	60
International Maritime Dangerous Goods (Code (IMDG) - Additional information
Proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.
Particulars in the shipper's declaration	UN2811, TOXIC SOLID, ORGANIC, N.O.S., (Malachite green hydrochloride), 6.1, III, MARIN POLLUTANT
Marine pollutant	yes (hazardous to the aquatic environment)
Danger label(s)	6.1, "Fish and tree"
Special provisions (SP)	223, 274
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
EmS	F-A, S-A
Stowage category	A
International Civil Aviation Organization (I	CAO-IATA/DGR) - Additional information
Proper shipping name	Toxic solid, organic, n.o.s.
Particulars in the shipper's declaration	UN2811, Toxic solid, organic, n.o.s., (Malachite green hydrochloride), 6.1, III
Environmental hazards	Yes (hazardous to the aquatic environment)
Danger label(s)	6.1
Special provisions (SP)	A3, A5
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 kg

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

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D						
Dangerous substanc		tions (REACH, Ar	inex XVII)			
Name of substar		Name acc. to inve		CAS No	Restriction	N
Malachite green hydroc	chioride subst	ances in tattoo inks a ent make-up	nd perman-		R75	75
stances shall not be are present in the fc (a) in the case of a s 1A, 1B or 2, or germ equal to or greater i (b) in the case of a s category 1A, 1B or 2 weight; (c) in the case of a s egory 1, 1A or 1B, th weight; (d) in the case of a s egory 1, 1A, 1B or 1 substance is presen (i) 0, 1 % by weight, i (e) in the case of a s mixture in a concen (f) in the case of a s (Product type, Body mixture in a concen (i) "Rinse-off produc (ii) "Not to be used i (iii) "Not to be used i (iii) "Not to be used i (j) in the case of a s preparation) or colu the mixture in a con (h) in the case of a s tration equal to or g 2. For the purposes ture into a person's monly referred to a: making a mark or d 3. If a substance no concentration limit 13 also falls within of paragraph 1 shall af 4. By way of deroga (a) Pigment Blue 15: (b) Pigment Green 7 5. If Part 3 of Annex stance such that the that it then falls with plication of that new graph 4 of this entry taking effect on the 6. If Annex II or Ann of a substance such such that it then fall amendment takes e that amendment takes e that amendment takes e that anendment takes e that in descend any substance and 7. Suppliers placing mixture is marked v (a) the statement "M (b) a reference num (c) the list of ingredi names pursuant to IUPAC name. In the be listed in descend any substance adde purities shall not be this entry, is already ent does not need t (d) the additional sta (e) the statement "C	used for tattooing j blowing circumstan ubstance classified than 0,00005 % by v ubstance classified the substance classified the substance classified C or skin irritant cat t in the mixture in a f the substance is pres- ubstance classified C or skin irritant cat t in the mixture in a f the substance is to t in all other cases; ubstance listed in A tration equal to or <u>c</u> ubstance for which a parts) of the table i tration equal to or <u>c</u> tration equal to or <u>c</u> ubstance for which in eye products"; ubstance for which in a (Other) of the centration, or in soo ubstance listed in A preater than the con of this entry use of skin, mucous meml s permanent make- centration, paragraph 1 sf :3 (CI 74160, EC No 27 VI to Regulation (EC e substance then be hin a different one c v or revised classific date of application that the substance is date of application that the substance is after entry into f a mixture on the m vith the following in disture for use in tat ber to uniquely ider lents in accordance is date of a comm ling order by weight deugarded as ingred v required to be stat o be marked in accordance is during the proces is regarded as ingred o be marked in accordance is during the proces is regarded as ingred o be marked in accordance is during the proces is regarded as ingred o be marked in accordance is during the proces is regarded as ingred o be marked in accordance is during the proces is regarded as ingred o be marked in accordance is during the proces is regarded as ingred o be marked in accordance is during the proces is regarded as ingred o be marked in accordance is during the proces is regarded as ingred o be marked in accordance is during the proces is regarded as ingred o be	mixtures for use for t burposes, after 4 Jan ces: in Part 3 of Annex VI iory 1A, 1B or 2, the s veight; in Part 3 of Annex VI resent in the mixture n Part 3 of Annex VI ent in the mixture in in Part 3 of Annex VI egory 2, or as serious concentration equal sed solely as a pH reg nex II to Regulation reater than 0,00005 a condition of one or n Annex IV to Regulat greater than 0,0005 on mucous membran a condition is specific table in Annex IV to R me other way, that do ppendix 13 to this An centration limit speci a mixture "for tattooi orane or eyeball, by a up, cosmetic tattooi orane or eyeball by bo or those points from t ation is after the datte shall, for the purpose of that new or reviser (EC) No 1223/2009 is then becomes caugh one of those points from t arket for use for tatto formation: toos or permanent n	Jary 2022 if the to Regulation ubstance is put to Regulation in a concentration to Regulation a concentration to Regulation a concentration to Regulation s eye damage to or greater gulator; (EC) No 1223/ % by weight; more of the fe tion (EC) No 12 % by weight; more of the fe tion column he segulation (EC) poss not accord nex, the subs fied for that s ng purposes or g, micro-bladi han one of po apply to that s subs appl 1, the con- ollowing subs 7-14-8); 8-53-6). mended after 4 nt (a), (b), (c) o he one within s of applying d classificatior amended after s of applying d classificatior amended after 4 nt (a), (b), (c) o he one with ulation; a substance, t cordance with ulation; alling under point s," if the mix	te substance o (EC) No 1272/2 resent in the n (EC) No 1272/2 on equal to (EC) No 1272/2 on equal to or (EC) No 1272/2 (I) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the on equal to or (f) or (g) of paragraph 1 this entry to the (f) of paragraph 1 (f) of paragraph 1 (f) of paragrap	r substances in ques 2008 as carcinogen on ixture in a concentr 2008 as reproductive or greater than 0,00 2008 as skin sensitis greater than 0,001 2008 as skin corrosive eye irritant category substance is present is specified in colum substance is present on centration in read 9, the substance is present on centration in read 9, the substance is present on or introduction of cluding procedures pigmentation), with of paragraph 1, the sis substance listed in <i>A</i> it laid down in point lanuary 2023: to classify or re-clase aph 1 of this entry, or reviously, and the des aph 1 of this entry, or reviously, and the des aph 1 of this entry, or reagraph 1 of this entry (argaraph 1 of this entry at substance, be tree 121 to list or change ragraph 1 of this entry (b) paragraph 4 of this ted as taking effect ade. that, after 4 January y of common ingredient na d EC number. 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Legend

1272/2008.

The information shall be clearly visible, easily legible and marked in a way that is indelible.

The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the

market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.

Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this para-

graph. 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or gener-ate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Not listed.

Seveso Directive

2012/	2012/18/EU (Seveso III)				
Νο	Dangerous substance/hazard categories	Qualifying quantity plication of lower quire		Notes	
H2	acute toxic (cat. 2 + cat. 3, inhal.)	50	200	41)	

Notation

41)

- Category 2, all exposure routes - category 3, inhalation exposure route

Deco-Paint Directive

VOC content	0 %
-------------	-----

Industrial Emissions Directive (IED)

VOC content	0 %
-------------	-----

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer **Register (PRTR)**

not listed

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Malachite green hydrochloride	Organohalogen compounds and substances which may form such compounds in the aquatic envir- onment		a)	

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List of pollutants (WFD)

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Malachite green hydrochloride	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	

Legend

a)

Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
TW	TCSI	substance is listed

Legend TCSI

Taiwan Chemical Substance Inventory

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2		Hazard statements: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
ED	Endocrine disruptor
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
SVHC	Substance of Very High Concern
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text	
H301	Toxic if swallowed.	
H318	Causes serious eye damage.	
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.	
H400	Very toxic to aquatic life.	
H410 Very toxic to aquatic life with long lasting effects.		

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.