

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 1 of 15

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

1.1. Product identifier

MAY GRUENWALD's Eosin

UFI: 9AJF-H4FN-8MAW-QTFM

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

Use of the substance/mixture

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: MORPHISTO GmbH
Street: Schumannstr. 142/144
Place: D-63069 Offenbach
Telephone: +49 (0) 69 / 400 3019-60 Telefax: +49 (0) 69 / 400 3019-64
E-mail: info@morphisto.de
Contact person: Morphisto GmbH
E-mail: gefahrstoffmanagement@morphisto.de
Internet: http://www.morphisto.de

1.4. Emergency telephone number:

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 2; H225
Acute Tox. 3; H301
Acute Tox. 3; H311
Acute Tox. 3; H331
STOT SE 1; H370

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

methanol
ethanediol

Signal word: Danger

Pictograms:



Hazard statements

H225 Highly flammable liquid and vapour.
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
H370 Causes damage to organs.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 2 of 15

P260 smoking.
Do not breathe mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H301+H311+H331-H370

Precautionary statements

P260-P280-P301+P310-P308+P311

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
67-56-1	methanol			90 - < 95 %
	200-659-6	603-001-00-X	01-2119433307-44	
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370			
107-21-1	ethanediol			1 - < 5 %
	203-473-3	603-027-00-1	01-2119456816-28	
	Acute Tox. 4, STOT RE 2; H302 H373			
17372-87-1	Eosin G			< 1 %
	241-409-6		01-2120138551-62	
	Eye Irrit. 2, Skin Sens. 1; H319 H317			

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

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 3 of 15

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
67-56-1	200-659-6	methanol	90 - < 95 %
		inhalation: LC50 = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = 300 mg/kg; oral: LD50 = 100 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - < 10	
107-21-1	203-473-3	ethanediol	1 - < 5 %
		dermal: LD50 = >3500 mg/kg; oral: LD50 = 7712 mg/kg	
17372-87-1	241-409-6	Eosin G	< 1 %
		oral: LD50 = 2344 mg/kg	

Further Information

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from the danger area and lay down. First aider: Pay attention to self-protection! Remove contaminated, saturated clothing immediately. Remove casualty to fresh air and keep warm and at rest. To supervise the blood circulation. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Remove casualty to fresh air and keep warm and at rest. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Where appropriate artificial ventilation. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After ingestion

Rinse out mouth, spit out liquid again. Never give anything by mouth to an unconscious person or a person with cramps. Observe risk of aspiration if vomiting occurs. Call a physician immediately.

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

Following inhalation: Cough Dizziness Headache.

Following skin contact: Has degreasing effect on the skin.

After eye contact: Irritation Conjunctival redness. Conjunctival oedema (chemosis). Risk of blindness.

In case of ingestion: Risk of blindness. Stomach ache. Indisposition. vomiting. Functional disorders of the CNS and cardiovascular system. Loss of the positioning reflex and ataxia (disturbance of movement coordination)

Headaches and dizziness may occur, proceeding to fainting or unconsciousness; large doses may result in coma and death.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 4 of 15

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. Reignition possible over considerable distance. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO₂).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. In case of fire and/or explosion do not breathe fumes. Fight fire remotely due to the risk of explosion.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Remove victim out of the danger area. Ventilate affected area. Remove persons to safety. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

For non-emergency personnel

Ventilate affected area. Clear danger zone. Follow emergency plan. Consult an expert.

For emergency responders

Move undamaged containers from immediate hazard area if it can be done safely. Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk. Discharge into the environment must be avoided. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up**For containment**

Prevent spread over a wide area (e.g. by containment or oil barriers). Cover drains. Collect, embank and pump out. Observe possible material restrictions (section 10).

For cleaning up

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. Ventilate affected area.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use extractor hood (laboratory). Provide adequate ventilation as well as local exhaustion at critical locations. Avoid exposure - obtain special instructions before use. Wear personal protection equipment (refer to section 8).

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 5 of 15

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Flammable vapours can accumulate in head space of closed systems. Use only antistatically equipped (spark-free) tools. Wear anti-static footwear and clothing Ground and bond container and receiving equipment. Heating causes rise in pressure with risk of bursting. Have fire-extinguishers in readiness before opening containers.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Protect skin by using skin protective cream. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse. Street clothing should be stored separately from work clothing. Always close containers tightly after the removal of product. Ensure cleanliness and dryness in the workplace.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Ensure adequate ventilation of the storage area.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances or mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. Ammonium nitrate and preparations containing ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 15-25 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity. Heating may cause a fire or explosion. Ground and bond container and receiving equipment.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 6 of 15

DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
67-56-1	methanol		
Worker DNEL, acute	inhalation	local	260 mg/m ³
Worker DNEL, acute	dermal	systemic	40 mg/kg bw/day
Worker DNEL, acute	inhalation	systemic	260 mg/m ³
Worker DNEL, long-term	inhalation	local	260 mg/m ³
Worker DNEL, long-term	dermal	systemic	40 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	260 mg/m ³
107-21-1	ethanediol		
Worker DNEL, long-term	inhalation	local	35 mg/m ³
Worker DNEL, long-term	dermal	systemic	106 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment	Value	
67-56-1	methanol	
Freshwater	20,8 mg/l	
Marine water	2,08 mg/l	
Marine water (intermittent releases)	1540 mg/l	
Freshwater sediment	77 mg/kg	
Marine sediment	7,7 mg/kg	
Micro-organisms in sewage treatment plants (STP)	100 mg/l	
Soil	3,18 mg/kg	
107-21-1	ethanediol	
Freshwater	10 mg/l	
Marine water	1 mg/l	
Freshwater sediment	37 mg/kg	
Marine sediment	3,7 mg/kg	
Micro-organisms in sewage treatment plants (STP)	199,5 mg/l	
Soil	1,53 mg/kg	

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaustion at critical locations.

Use extractor hood (laboratory). Provide washing facilities at the workplace, provide an eye shower or eyewash bottle and mark them. Usual measures for fire prevention.

Individual protection measures, such as personal protective equipment

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 7 of 15

Eye/face protection

Wear eye/face protection. Eye glasses with side protection EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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. Pull-over gloves of rubber.

Suitable material: Butyl rubber. (0,7 mm)

(penetration time (maximum wearing period): ≥ 480 h)

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Before using check leak tightness / impermeability.

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing Protective clothing. (flame-retardant)

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at: Insufficient ventilation. exceeding exposure limit values

Suitable respiratory protective equipment: gas filtering equipment (EN 141). Type AX. Identification color: brown. Filter type: AX (for group 2 low boilers). In case of a maximum contaminant concentration in inhaled air of 1000 mL/m³ (0.1 % by vol.), group 2 may be used for a maximum of 60 min. In case of a maximum contaminant concentration in inhaled air of 5000 mL/m³ (0.5 % by vol.), group 2 may be used for a maximum of 20 min.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Suitable respiratory protective equipment: Self-contained respirator (breathing apparatus).

The wearing time limitations according to GefStoffV in conjunction with the rules for the use of respiratory protective devices (BGR 190) must be observed.

Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing . Decomposes when heated. Risk of explosion if heated under confinement. .

Environmental exposure controls

Do not allow to enter into surface water or drains.

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

Physical state:	liquid
Colour:	blue - violet
Odour:	alcoholic
Melting point/freezing point:	-98 °C
Boiling point or initial boiling point and boiling range:	64,7 °C
Flammability:	not applicable
Lower explosion limits:	6 vol. %
Upper explosion limits:	50 vol. %
Flash point:	9,7 °C
Auto-ignition temperature:	440 °C
Decomposition temperature:	not determined

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 8 of 15

pH-Value (at 20 °C):	7-8
Viscosity / kinematic: (at 20 °C)	0,7595 mm ² /s
Water solubility: (at 20 °C)	miscible.
Solubility in other solvents	miscible.
Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 20 °C)	Methanol: 129 hPa
Vapour pressure: (at 50 °C)	Methanol: 535 hPa
Density (at 20 °C):	0,80 g/cm ³
Relative vapour density: (at 20 °C)	1,11

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

Explosive properties

The product is not: Explosive. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Sustaining combustion:

Sustaining combustion

Oxidizing properties

Combustible liquid.

Other safety characteristics

Evaporation rate:

not determined

Viscosity / dynamic:

not determined

Flow time:

not determined

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

Highly flammable.

10.2. Chemical stability

Stable under normal storage and handling conditions. Thermal decomposition.

10.3. Possibility of hazardous reactions

Oxidizing agents, strong. Alkali metals. Aluminium. Nitric acid. Sulphuric acid. Nitric oxides. Hydrogen peroxide. Barium perchlorate. Lead chlorate. Lead perchlorate. Chromosulphuric acid. Dichlorohexoxide. Magnesium powder. Sodium hypochlorite. Perchloric acid. Permanganic acid. Zinc diethyl. Nitrogen oxides (NO_x), Halogenes. Reducing agent. Acids.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Keep away from heat. Protect from direct sunlight. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

10.5. Incompatible materials

Oxidizing agents. Strong acid, Base. Slowly corrodes aluminium and zinc under hydrogen evolution. Information is given in subsection 10.3.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO₂).

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation**

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 9 of 15

Acute toxicity

Toxic if swallowed.
Toxic in contact with skin.
Toxic if inhaled.

ATEmix calculated

ATE (oral) 104,4 mg/kg; ATE (dermal) 315,8 mg/kg; ATE (inhalation vapour) 3,160 mg/l; ATE (inhalation dust/mist) 0,5260 mg/l

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
67-56-1	methanol					
	oral	LD50 100 mg/kg	Rat	suppliers SDS.		
	dermal	LD50 300 mg/kg	Rabbit	suppliers SDS.		
	inhalation (4 h) vapour	LC50 3 mg/l	Rat	suppliers SDS.		
	inhalation dust/mist	ATE 0,5 mg/l				
107-21-1	ethanediol					
	oral	LD50 7712 mg/kg	Rat	ECHA		
	dermal	LD50 >3500 mg/kg	Mouse	ECHA		
17372-87-1	Eosin G					
	oral	LD50 2344 mg/kg	Rat, male and female	suppliers SDS.		

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

Causes damage to organs. (methanol)

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information

12.1. Toxicity

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

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 10 of 15

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
67-56-1	methanol					
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	ECHA Dossier
	Acute algae toxicity	ErC50 mg/l	22000	96 h	Pseudokirchneriella subcapitata	ECHA Dossier
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna	ECHA Dossier OECD 202
107-21-1	ethanediol					
	Acute fish toxicity	LC50 mg/l	>17000	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA
	Acute algae toxicity	ErC50 mg/l	>6500	96 h	Selenastrum capricornutum	ECHA
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna (Big water flea)	ECHA
	Fish toxicity	NOEC mg/l	>1500	28 d	Oncorhynchus mykiss (Rainbow trout)	ECHA
	Crustacea toxicity	NOEC mg/l	>15000	21 d	Daphnia magna (Big water flea)	ECHA

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
67-56-1	methanol			
	other guideline	96%	20	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
107-21-1	ethanediol			
	Biodegradability	83-96%	14	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-56-1	methanol	-0,77
107-21-1	ethanediol	-1,36
17372-87-1	Eosin G	6,92

BCF

CAS No	Chemical name	BCF	Species	Source
67-56-1	methanol	<10		

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 11 of 15

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Hazardous waste according to Directive 2008/98/EC (waste framework directive). Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

SECTION 14: Transport information
Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1230
14.2. UN proper shipping name:	METHANOL
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3+6.1



Classification code:	FT1
Special Provisions:	279
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	336
Tunnel restriction code:	D/E

Inland waterways transport (ADN)

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 12 of 15

14.1. UN number or ID number: UN 1230
14.2. UN proper shipping name: METHANOL
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3+6.1



Classification code: FT1
 Special Provisions: 279 802
 Limited quantity: 1 L
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1230
14.2. UN proper shipping name: METHANOL
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3+6.1



Special Provisions: 279
 Limited quantity: 1 L
 Excepted quantity: E2
 EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1230
14.2. UN proper shipping name: METHANOL
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3+6.1



Special Provisions: A113
 Limited quantity Passenger: 1 L
 Passenger LQ: Y341
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 352
 IATA-max. quantity - Passenger: 1 L
 IATA-packing instructions - Cargo: 364
 IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Combustible liquid. Acute Toxicity. Refer to section 6-8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 13 of 15

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

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Information according to Directive 2012/18/EU (SEVESO III): H2 ACUTE TOXIC

Additional information: P5c

Additional information

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

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning.

Additional information

The product is subject to the Chemicals Prohibition Ordinance (ChemVerbotsV). Observe the requirements and restrictions for handling and dispensing in Section 3 of the ChemVerbotsV, among others.

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

methanol

ethanediol

Eosin G

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,3,4,10,15,16.

Rev. 0,01; 06.09.2016, Initial release Methanol SDS

Rev. 1,00; 29.07.2021 Initial release SDS MAY GRÜN WALD-Eosin

Rev. 2,0; 28.06.2023; general adjustment(s)

Rev. 2,1; 13.11.2023; New UFI code was generated.

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 14 of 15

Abbreviations and acronyms

Flam. Liq: Flammable liquids
Acute Tox: Acute toxicity
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
ADR: Accord européen sur le transport des marchandises dangereuses par Route
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect level
NTP: National Toxicology Program
N/A: not applicable
OSHA: Occupational Safety and Health Administration
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SARA: Superfund Amendments and Reauthorization Act
SVHC: substance of very high concern
TRGS Technische Regeln fuerGefahrstoffe
TSCA: Toxic Substances Control Act
VOC: Volatile Organic Compounds
VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe
WGK: Wassergefaehrdungsklasse
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route

Safety Data Sheet

according to UK REACH Regulation

MAY GRUENWALD's Eosin

Revision date: 13.11.2023

Product code: 11421.xxxxx

Page 15 of 15

(European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Regulations concerning the international carriage of dangerous goods by rail
 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)
 EmS: Emergency Schedules
 MFAG: Medical First Aid Guide
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships
 IBC: Intermediate Bulk Container
 For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety
 assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Acute Tox. 3; H301	Calculation method
Acute Tox. 3; H311	Calculation method
Acute Tox. 3; H331	Calculation method
STOT SE 1; H370	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Classification according EC regulation 1272/2008 (CLP): -

Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

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