Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date of issue: 03/12/2019 Revision date: 09/04/2025 Supersedes version of: 13/09/2023 Version: 1.3

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

1.1. Product identifier

Product form	:	Mixture
Name	:	Eosin alcoholic solution 0.5%
Trade name	:	Eosin alcoholic solution 0.5%
UFI	:	2630-M0UD-8006-9AQ9
Product code	:	EOYE-A0D

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

No additional information available

1.3. Details of the supplier of the safety data sheet

No additional information available

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Flammable liquids, Category 2 H225 Full text of H and EUH statements: see section 16 Adverse physicochemical, human health and environmental effects No additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS07 Signal word (CLP) Danger : Contains ALCOHOL; Eosin yellowish, C.I. 45380 for microscopy

Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour.
Precautionary statements (CLP)	: P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
	P233 - Keep container tightly closed.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.

2.3. Other hazards

PBT: not relevant – no registration required

Contains no PBT/vPvB substances \geq 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

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SECTION 3: Composition/information on ingredients

3.2. Mixtures					
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]		
ALCOHOL	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5	< 70	Flam. Liq. 2, H225		
Eosin yellowish, C.I. 45380 for microscopy	CAS-No.: 17372-87-1 EC-No.: 241-409-6	< 0,5	Eye Irrit. 2, H319		

Full text of H and EUH statements: see section 16

SECTION 4: First aid measures					
4.1. Description of first aid measures					
First-aid measures general	: Get medical advice/attention if you feel unwell.				
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary.				
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation occurs: Get medical advice/attention.				
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persists.				
First-aid measures after ingestion	: If swallowed, seek medical advice immediately and show this container or label. Rinse mouth out with water.				
4.2. Most important symptoms and e	ffects, both acute and delayed				
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	 May cause respiratory irritation. Cough. Causes skin irritation. Causes eye irritation. redness, itching, tears. 				
 Symptoms/effects after ingestion : May cause irritation to the digestive tract. Abdominal pain. 4.3. Indication of any immediate medical attention and special treatment needed 					

Never give anything by mouth to an unconscious person.

SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media Unsuitable extinguishing media	: Carbon dioxide. Water spray. Dry powder. : Strong water jet.				
5.2. Special hazards arising from the subs	tance or mixture				
Hazardous decomposition products in case of fire	: Toxic vapours are released.				
5.3. Advice for firefighters					
Firefighting instructions Protection during firefighting	Exercise caution when fighting any chemical fire.Do not enter fire area without proper protective equipment, including respiratory protection.				

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SECTION 6: Accidental release	SECTION 6: Accidental release measures					
6.1. Personal precautions, protectiv	e equipment and emergency procedures					
For emergency responders Protective equipment	: Equip cleanup crew with proper protection. Do not attempt to take action without suitable protective equipment.					
6.2. Environmental precautions						
Prevent entry to sewers and public waters.						
6.3. Methods and material for conta	inment and cleaning up					
For containment	: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.					
6.4. Reference to other sections						
See Heading 8. For further information refe	r to section 13.					
SECTION 7: Handling and storage	ge					
7.1. Precautions for safe handling						
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.					
7.2. Conditions for safe storage, including any incompatibilities						
Storage conditions Storage temperature	 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed. 15 – 25 °C 					
Special rules on packaging	: Keep only in original container. Store in a closed container.					

7.3. Specific end use(s)

Laboratory chemicals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Eosin alcoholic solution 0.5%		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	1900 mg/m ³	
	1000 ppm	
ALCOHOL (64-17-5)		
France - Occupational Exposure Limits		
Local name	Alcool éthylique	
VME (OEL TWA)	1900 mg/m ³	
	1000 ppm	
VLE (OEL Ceiling/STEL)	9500 mg/m³	
	5000 ppm	
Remark	Valeurs recommandées/admises	

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ALCOHOL (64-17-5)				
Germany - Occupational Exposure Limits (TRGS 90	Germany - Occupational Exposure Limits (TRGS 900)			
Local name	Ethanol			
AGW (OEL TWA)	960 mg/m³			
	500 ppm			
Remark	DFG,Y			
Portugal - Occupational Exposure Limits				
Local name	Etanol (Álcool etílico)			
OEL STEL 1000 ppm				
Spain - Occupational Exposure Limits				
Local name	Etanol (Alcohol etílico)			
VLA-EC (OEL STEL)	1910 mg/m ³			
	1000 ppm			
Remark	s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).			
United Kingdom - Occupational Exposure Limits				
Local name	Ethanol			
WEL TWA (OEL TWA)	1920 mg/m ³			
	1000 ppm			

DNEL and PNEC

Eosin alcoholic solution 0.5%			
DNEL/DMEL (Workers)			
Acute - systemic effects, dermal	343 mg/kg bodyweight/day		
Acute - systemic effects, inhalation	950 mg/m ³		
DNEL/DMEL (General population)			
Acute - systemic effects, dermal	206 mg/kg bodyweight		
Acute - systemic effects, inhalation 114 mg/m ³			
PNEC (Water)			
PNEC aqua (freshwater) 0,96 mg/l			
PNEC aqua (marine water)	0,79 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater) 3,6 mg/kg dwt			
PNEC (Soil)			
PNEC soil 0,63 mg/kg dwt			
8.2. Exposure controls			

Personal protection equipment

Personal protective equipment: Avoid all unnecessary exposure. EN 374.

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Eye and face protection

Eye protection:

Safety glasses

Eye protection			
Туре	Field of application	Characteristics	Standard
			EN 166

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	6 (> 480 minutes)	0.40 mm		EN ISO 374

Other skin protection

Materials for protective clothing: Wear safety footwear

Respiratory protection

Respiratory protection:

Wear appropriate mask

Environmental exposure controls

Other information:

Wash hands with water as a precaution. Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: orange. Dark pink. red.	
Odour	: alcohol.	
Odour threshold	: Not available	
Melting point	: Not available	
Freezing point	: Not available	
Boiling point	: Not available	
Flammability	: Not available	
Lower explosion limit	: Not available	
Upper explosion limit	: Not available	
Flash point	: 21 °C	
Auto-ignition temperature	: Not available	
Decomposition temperature	: Not available	
рН	: 3,44	
Viscosity, kinematic	: Not available	
Solubility	: Not available	
Partition coefficient n-octanol/water (Log Kow)	: Not available	

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Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified
Eosin alcoholic solution 0.5%	
LD50 oral rat	7060 mg/kg
LC50 inhalation rat (mg/l)	20000 mg/l
Skin corrosion/irritation	: Not classified pH: 3,44
Serious eye damage/irritation	: Not classified pH: 3,44
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine	: Not applicable
disrupting properties	

SECTION 12: Ecological information		
12.1. Toxicity		
Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Not classified (chronic)		
Eosin yellowish, C.I. 45380 for microscopy (17	/372-87-1)	
LC50 - Fish [1]	2344 mg/kg	
12.2. Persistence and degradability		
Eosin alcoholic solution 0.5%		
Persistence and degradability	Rapidly degradable	
ALCOHOL (64-17-5)		
Persistence and degradability	Rapidly degradable	
Eosin yellowish, C.I. 45380 for microscopy (17372-87-1)		
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Eosin alcoholic solution 0.5%		
PBT: not relevant – no registration required		
12.6. Endocrine disrupting properties		
Adverse effects on the environment caused by : endocrine disrupting properties	Not applicable.	
12.7. Other adverse effects		
Other adverse effects :	Do not discharge into drains or rivers.	
SECTION 13: Disposal considerations		

13.1. Waste treatment methods		
5 5 ()	Disposal must be done according to official regulations.Must follow special treatment according to local regulation.	

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SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA / ADN / RI	D
14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 : UN 1170
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) (ADR) Transport document description (IMDG) Transport document description (IATA) Transport document description (ADN) Transport document description (RID)	 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) ETHANOL (ETHYL ALCOHOL) Ethanol solution ETHANOL (ETHYL ALCOHOL) ETHANOL (ETHYL ALCOHOL) UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II, (D/E) UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	
IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)	
IATA Transport hazard class(es) (IATA) Danger labels (IATA)	
ADN Transport hazard class(es) (ADN) Danger labels (ADN)	
RID Transport hazard class(es) (RID)	: 3

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Danger labels (RID)	: 3
14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: 11
Packing group (ADN)	
Packing group (RID)	: 11
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	
EmS-No. (Fire) EmS-No. (Spillage)	: F-E : S-D
Other information	: No supplementary information available
14.6. Special precautions for user	
Overland transport Classification code (ADR)	: F1
Special provisions (ADR)	. FI : 144, 601
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions	: TP1
(ADR)	
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR) Special provisions for carriage - Operation (ADR)	: 2 : S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	
	<u>33</u> 1170
Tunnel restriction code (ADR) EAC code	: D/E : •2YE
Transport by sea	
Special provisions (IMDG)	: 144
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG) IBC packing instructions (IMDG)	: P001 : IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Colourless, volatile liquids. Pure ETHANOL: flashpoint 13°C c.c. Explosive limits: 3.3% to 19%. Miscible with water.
Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353

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PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A58, A180
ERG code (IATA)	: 3L
Inland waterway transport	
Classification code (ADN)	: F1
Special provisions (ADN)	: 144, 601
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
Rail transport	
Classification code (RID)	: F1
Special provisions (RID)	: 144, 601
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions	: TP1
(RID)	
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	Eosin alcoholic solution 0.5% ; ALCOHOL
3(b)	Eosin alcoholic solution 0.5%
40.	Eosin alcoholic solution 0.5% ; ALCOHOL

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

National regulations

France

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

Germany

Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)	 WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1). Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: ALCOHOL is listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: ALCOHOL is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: ALCOHOL is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: ALCOHOL is listed
Denmark	
Class for fire hazard	: Class I-1
Store unit	: 1 liter
Classification remarks	: F <flam. 2="" liq.="">; Emergency management guidelines for the storage of flammable liquids must be followed</flam.>

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information	
Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.