

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

RTA.GBF.541 Revizyon Tarihi/Revizyon no:01.09.2018/1 Yayın tarih: 15.01.2017

SECTION 1. Identification of the substance/mixture and of the company/undertaking Catalogue No. 07005
Product name: EZN Stain setstaining method Reagent 1, Carbol Fucsin solution
Company: RTA Laboratuvarları Biyolojik Ürünler, İlaç ve Makine San. Tic. A.Ş. GEPOSB Cumhuriyet Cad. No;3 41400 Gebze-Kocaeli-TÜRKİYE
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SECTION 2. Hazards identification

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008)

Toxic if swallowed, H301

Toxic in contact with skin, H311

Toxic by inhalation, H331

Causes severe skin burns and eye damage,H314

May cause damage to organs through prolonged or repeated exposure, H373

Harmful if swallowed, H302

Suspected of causing cancer, H351

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain setstainingmethod
	Reagent 1, Carbol Fucsin solution

Warning

Hazard statements

H301 Toxic if swallowed

H311 Toxic in contact with skin

H331 Toxic by inhalation

H314 Causes severe skin burns and eye damage

H373 May cause damage to organs through prolonged or repeated exposure

H302 Harmful if swallowed

H351 Suspected of causing cancer

Precautionary statements

Prevention

P301, P330, P331 If swallowed: Rinse mouth. Do not induce vomiting.

P302, P352 On skin: Wash with plenty of soap and water

P304, P340 In case of inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305, P351, P338 In case of eye contact: Rinse cautiously with water for several minutes, contact lens, if present and easy Rinse continuously

to do. Rinse continuously

Reduced labelling (≤125 ml)

Hazard pictograms



Signal word Warning

Hazard statements H412 Harmful to aquatic life with long lasting effects.

2.3 Other hazards

None known.

according to Regulation (EC) No. 1907/2006

Catalogue No. Product name 07005 EZN Stain setstainingmethod Reagent 1, Carbol Fucsin solution

SECTION 3. Composition/information on ingredients

Chemical nature: Aqueous-ethanolic dye solution.

3.1 Substance Not

applicable

3.2 Mixture

according to Regulation (EC) No. 1907/2006

Catalogue No.

Product name

07005 EZN Stain setstainingmethod Reagent 1, Carbol Fucsin solution

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical name (Concentration)

CAS-No.	Registration number	Classification	
ethanol (>= 3 % - < 10 %)			
Substancedoes	not meet the criteria for PBT or vPvBa	according to Regulation (EC) No 1907/2006, Annex XIII.	
64-17-5	01-2119457610-43-		
	XXXX	Flammable liquid, Category 2, H225	
		Eye irritation, Category 2, H319	

Fucsin

211-189-6

Acute toxicity, Category 4, H302 Serious eyedamage, Category 1, H318 Carcinogenicity, Category 2, H351 Acute aquatic toxicity, Category 1, H400 Chronic aquatic toxicity, Category 1, H410 M-Factor: 1

Phenol (< 1 %)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

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*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Productname	EZN Stain setstainingmethod
	Reagent 1, Carbol Fucsin solution

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed We have no description of any toxic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Mixture with combustible ingredients. Forms explosive mixtures with air at elevated temperatures. Developmentofhazardous combustion gases or vapours possible in the event of fire. Vapours are heavier than air and may spread along floors.

5.3 Advice for firefighters

Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus.

Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain setstainingmethod
	Reagent 1, Carbol Fucsin solution

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Observe label precautions.

Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep away from heat and sources of ignition. Keep container tightly closed in a dry and well- ventilated place.

Recommended storage temperature see product label.

The data applies to the entire pack.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL)

ethanol (64-17-5) Worker DNEL, acute	Local effects	inhalation	1900 mg/m³
Worker DNEL, longterm	Systemic effects	dermal	343 mg/kg Body weight
Worker DNEL, longterm	Systemic effects	inhalation	950 mg/m³
Consumer DNEL, acute	Local effects	inhalation	950 mg/m³
Consumer DNEL, longterm	Systemic effects	dermal	206 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	inhalation	114 mg/m³

according to Regulation (EC) No. 1907/2006

Catalogue No.	alogue No. 07005			
Product name		EZN Stain setstainingmethe	od	
	Reagent 1, Carbol Fucsin solution			
Consumer DNEL, longterm Phenol (108-95-2)	Systemic effects	oral	87 mg/kg Body weight	
Worker DNEL, longterm	Systemic effects	inhalation	8 mg/m³	
Worker DNEL, longterm	Systemic effects	dermal	1,23 mg/kg Body weight	
Phenol (108-95-2) PNEC Fresh water		0,0077 mg/l		
PNEC Marine water		0,00077 mg/l		
PNEC Fresh water se	ediment	0,0915 mg/kg		
PNEC Marine sedime	ent	0,00915 mg/kg		
PNEC Soil		0,136 mg/kg		
PNEC Sewage treatment	nent plant	2,1 mg/l		

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection Safety glasses

Hand protection

full contact:

fuil contact:		
	Glove material:	butyl-rubber
	Glove thickness:	0,7 mm
	Break through time:	> 480 min
splash contact:		
	Glove material:	Nitrile rubber
	Glove thickness:	0,40 mm
	Break through time:	> 120 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 898 Butoject® (full contact), KCL 730 Camatril® -Velours (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

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	Reagent 1, Carbol Fucsin solution

This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment Flame retardant antistatic protective clothing.

Respiratory protection Not required; except in case of aerosol formation.

required when vapours/aerosols are generated.

Environmental exposure controls Do not let product enter drains. Risk of explosion.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties		
Form	liquid	
Colour	Maghenta red	
Odour	characteristic	
Odour Threshold	No information available.	
рН	No information available.	
Melting point	No information available.	
Boiling point	No information available.	
Flash point	47,7 °C	
Evaporation rate	Noinformation available.	
Flammability (solid, gas)	Noinformation available.	
Lower explosion limit	Noinformation available.	
Upper explosion limit	Noinformation available.	
Vapour pressure	No information available.	
Relative vapour density	No information available.	

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Catalogue No.	07005	
Product name	EZN Stain setstainingmethod	
	Reagent 1, Carbol Fucsin solution	
Density	No information available.	
Relative density	No information available.	
Water solubility	No information available.	
Partition coefficient: n- octanol/water	No information available.	
Auto-ignition temperature	No information available.	
Decomposition temperature	No information available.	
Viscosity, dynamic	No information available.	
Explosive properties	Not classified as explosive.	
Oxidizing properties	none	
9.2 Other data		

none

SECTION 10. Stability and reactivity

10.1 Reactivity

Vapour/air-mixtures are explosive at intense warming.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

10.4 Conditions to avoid

Heating.

10.5 Incompatible materials no

information available

10.6 Hazardous decomposition products no

information available

according to Regulation (EC) No. 1907/2006

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Productname	EZN Stain setstainingmethod
	Reagent 1, Carbol Fucsin solution

SECTION 11. Toxicological information

11.1 Information on toxicological effects Mixture

Acute oral toxicity Acute toxicity estimate: >2.000 mg/kg Calculation method

Acute inhalation toxicity Acute toxicity estimate: > 20 mg/l; 4 h; vapour Calculation method

Acute dermal toxicity absorption Acute toxicity estimate : >2.000 mg/kg Calculation method

Skin irritation This information is not available.

Eye irritation This information is not available.

Sensitisation This information is not available.

Germ cell mutagenicity This information is not available.

Carcinogenicity This information is not available.

Reproductive toxicity This information is not available.

Teratogenicity This information is not available.

Specific target organ toxicity - single exposure This information is not available.

Specific target organ toxicity - repeated exposure This information is not available.

Aspiration hazard This information is not available.

11.2 Further information

Applicable to the toxicologically determinant component: Long-term feeding studies in rats and mice revealed an increased incidence of tumours in different target organs.

The results of the long-term studies available suggest that exposure to crystal violet/gentian violet may lead to irreversible damage. The positive in-vitro genetic toxicity findings also point in a negative direction. However, the data available do not suffice to classify the dye as carcinogenic in humans.

However, when the product is handled appropriately, hazardous effects are unlikely to occur. Handle in accordance with good industrial hygiene and safety practice.

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	Reagent 1, Carbol Fucsin solution

Handle in accordance with good industrial hygiene and safety practice.

Components

ethanol Acute oral toxicity LD50 Rat: 10.470 mg/kg OECD Test Guideline 401

> Acute inhalation toxicity LC50 Rat: 124,7 mg/l; 4h; vapour OECD Test Guideline 403

Skin irritation Rabbit Result: No skin irritation OECD Test Guideline 404

Eye irritation Rabbit Result: Eye irritation OECD Test Guideline 405

Sensitisation Sensitisation test (Magnusson and Kligman): Result: negative (IUCLID)

Germ cell mutagenicity Genotoxicity in vitro Ames test Salmonella typhimurium Result: negative Method: OECD Test Guideline 471

In vitro mammalian cell gene mutation test Mouse lymphoma test Result: negative Method: OECD Test Guideline 476

Reproductive toxicity Application Route: Oral Mouse Method: OECD Test Guideline 416

Phenol

Acute dermal toxicity LD50 Rat: 660 mg/kg OECD Test Guideline 402

Skin irritation Invitrostudy Result: Causes burns. OECD Test Guideline 431

according to Regulation (EC) No. 1907/2006

Catalogue No.

Product name

07005 EZN Stain setstainingmethod Reagent 1, Carbol Fucsin solution

Eye irritation Rabbit Result: Corrosive OECD Test Guideline 405

Sensitisation Sensitisation test: Guinea pig Result: negative (IUCLID)

Germ cell mutagenicity Genotoxicity in vitro Mutagenicity(mammalcelltest):chromosome aberration. Result: positive Method: OECD Test Guideline 473

Mutagenicity (mammal cell test): micronucleus. Result: positive Method: OECD Test Guideline 487

SECTION 12. Ecological information Mixture

12.1 Toxicity

No information available.

- **12.2 Persistence and degradability** No information available.
- **12.3 Bioaccumulative potential** No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

Components

ethanol

Toxicity to fish LC50 Leuciscus idus (Golden orfe): 8.140 mg/l; 48 h (IUCLID)

Toxicity to daphnia and other aquatic invertebrates EC5 E.sulcatum: 65 mg/l; 72 h (Lit.)

EC50 Daphnia magna (Water flea): 9.268 - 14.221 mg/l; 48 h (IUCLID)

Toxicity to algae IC5 Scenedesmus quadricauda (Green algae): 5.000 mg/l; 7 d (Lit.)

Toxicity to bacteria EC5 Pseudomonas putida: 6.500 mg/l; 16 h (IUCLID)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) semistatic test NOEC Daphnia magna (Water flea): 9,6 mg/l; 9 d (ECHA)

according to Regulation (EC) No. 1907/2006

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Productname	EZN Stain setstainingmethod
	Reagent 1, Carbol Fucsin solution

Biodegradability 94 % OECD Test Guideline 301E Readily biodegradable

Biochemical Oxygen Demand (BOD) 930-1.670 mg/g (5 d) (Lit.)

Theoretical oxygen demand (ThOD) 2.100 mg/g (Lit.)

Ratio COD/ThBOD 90 % (Lit.)

Partition coefficient: n-octanol/water log Pow: -0,31 (experimental) (Lit.) Bioaccumulation is not expected.

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

Phenol

Toxicity to fish LC50 Oncorhynchus mykiss (rainbow trout): 5,0 mg/l; 96 h (ECOTOX Database)

according to Regulation (EC) No. 1907/2006

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Productname	EZN Stain setstainingmethod
	Reagent 1, Carbol Fucsin solution

Toxicity to daphnia and other aquatic invertebrates static test EC50 Ceriodaphnia dubia (water flea): 3,1 mg/l; 48 h US-EPA

Toxicity to algae IC5 Scenedesmus quadricauda (Green algae): 7,5 mg/l; 8 d (IUCLID) (maximum permissible toxic concentration)

static test EC50 Pseudokirchneriella subcapitata (algae): 61,1 mg/l; 96 h US-EPA

Toxicity to bacteria EC50 activated sludge: 766 mg/l; 3 h OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) semi-static test NOEC Poecilia reticulata (guppy): 4 mg/l; 14 d OECD

Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) semi-static test EC10 Daphnia magna (Water flea): 0,46 mg/l; 16 d (ECHA)

Biodegradability 100 %; 6 d OECD Test Guideline 302B Easily eliminable.

85 %; 14 d OECD Test Guideline 301C Readily biodegradable

Biochemical Oxygen Demand (BOD) 1.680 mg/g (5 d) (IUCLID)

Chemical Oxygen Demand (COD) 2.300 mg/g (IUCLID)

Partition coefficient: n-octanol/water log Pow: 1,47 (30 °C) (ECHA) Bioaccumulation is not expected.

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

Surface tension 71,3 mN/m at 20 °C

SECTION 13. Disposal considerations

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain set staining method
	Reagent 1, Carbol Fucsin solution

Waste treatment methods See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions. **SECTION 14. Transport information Land** transport (ADR/RID) 14.1 UN number UN 1993 14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S.(CONT. ETHANOL, ACETONE) 14.3 Class 3 14.4 Packing group Ш 14.5 Environmentally hazardous ---14.6 Special precautions for user yes Tunnel restriction code D/E Inlandwaterwaytransport(ADN) Not relevant Air transport (IATA) 14.1 UN number UN 1993 14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S.(CONT. ETHANOL, ACETONE) 14.3 Class 3 14.4 Packing group Ш 14.5 Environmentally hazardous ---14.6 Special precautions for user no Sea transport (IMDG) 14.1 UN number UN 1993 14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S.(CONT. ETHANOL, ACETONE) 14.3 Class 3 14.4 Packing group Ш 14.5 Environmentally hazardous ---14.6 Special precautions for user yes EmS F-E S-D

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Productname	EZN Stain setstainingmethod
	Reagent 1, Carbol Fucsin solution

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations Major Accident Hazard 96/82/EC Legislation Flammable. 6 Quantity 1: 5.000 t Quantity 2: 50.000 t SEVESO III FLAMMABLE LIQUIDS P5c Quantity 1: 5.000 t Quantity 2: 50.000 t Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at work. Regulation (EC) No 1005/2009 on substances that not regulated deplete the ozone layer Regulation (EC) No 850/2004 of the European not regulated ParliamentandoftheCouncilof29April2004on persistent organic pollutants and amending Directive 79/117/EEC Substances of very high concern (SVHC) This product does not contain substances of very high concern according to Regulation (EC)No1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of ≥ 0.1 % (w/w). National legislation Storage class 3 The data applies to the entire pack.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain setstainingmethod
	Reagent 1, Carbol Fucsin solution

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

- H301, Toxic if swallowed.
- H311 Toxic in contact with skin.
- H331 Toxic by inhalation.
- H314 Causes severe skin burns and damage to eyes.
- H373Long time or repeated exposure may result in damage to organs.
- H302 Harmful if swallowed
- H351 Suspected of causing cancer.
- H301, Toxic if swallowed.
- H311 Toxic in contact with skin.
- H331 Toxic by inhalation.
- H314 Causes severe skin burns and damage to eyes.
- H373Long time or repeated exposure may result in damage to organs.

H302 Harmful if swallowed

Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

according to Regulation (EC) No. 1907/2006

RTA.GBF.541 Revizyon Tarihi/Revizyon no:01.09.2018/1 Yayın tarih: 15.01.2017

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

1.1 Product identifier

Catalogue No. 07005 Product name: EZN Stain setstainingmethod Reagent 2, Methylene blue solution

Company: RTA Laboratuvarları Biyolojik Ürünler, İlaç ve Makine San. Tic. A.Ş.
 GEPOSB Cumhuriyet Cad. No;3 41400 Gebze-Kocaeli-TÜRKİYE
 Emergency telephone number: (+ 90) 262 648 53 00

Fax: (+90) 262 751 06 77

Email: rta@rtalabs.com.tr

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008) Chronic Harmful if swallowed, H302

Harmful to aquatic life with long lasting, H 412 effects.

For the full text of the H-Statements mentioned in

this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P233 Keep container tightly closed.

P241 Use explosion-proof electrical / ventilation / ignition material.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P303, P361, P353 In case of contact with skin (or hair): Remove / Take off immediately all contaminated clothing. Rinse your skin with water / shower.

P370, P378 In case of fire: Use sand, carbon dioxide or powder extinguisher for extinguishing.

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain setstainingmethod
	Reagent 2, Methylene blue solution

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

Chemical nature

Aqueoussolution of inorganic and organic compounds.

3.1 Substance Not

applicable

3.2 Mixture

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical name (Concentration)

(CAS-No.	Registration number	Classification
	CAS-No.	Registration number	Classification
ethanol (>= 3 % - < 10 %)			
Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/200 XIII.		or vPvB according to Regulation (EC) No 1907/2006, Annex	
	64-17-5	01-2119457610-43-	
		XXXX	Flammable liquid, Category 2, H225
			Eye irritation, Category 2, H319

Mehtylene 61-73-4 blue

Acute toxicity, Category 4, H302

*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

according to Regulation (EC) No. 1907/2006

Catalogue No. Product name 07005 EZN Stain setstainingmethod Reagent 2, Methylene blue solution

After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain setstainingmethod
	Reagent 2, Methylene blue solution

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

4.3 Indication of any immediate medical attention and special treatment needed No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

- 5.2 Special hazards arising from the substance or mixture
- Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus.

Further information Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions Do not

let product enter drains.

6.3 Methods and materials for containment and cleaning up

Coverdrains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralising material (e.g. Chemizorb® H⁺, Merck Art. No. 101595). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain setstainingmethod
	Reagent 2, Methylene blue solution

Advice on safe handling Observe label precautions.

Hygiene measures Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep away from heat and sources of ignition. Keep container tightly closed in a dry and well- ventilated place.

Recommended storage temperature see product label.

The data applies to the entire pack.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See

section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection Safety glasses

Hand protection

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min
Glove material:	Nitrile rubber

splash contact:

Glove material: Ni Glove thickness: 0, Break through time: >

Nitrile rubber 0,11 mm > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain setstainingmethod
	Reagent 2, Methylene blue solution

This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Respiratory protection Not required; except in case of aerosol formation.

Environmental exposure controls Do not let product enter drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Colour	blue
Odour	characteristic
Odour Threshold	Not applicable
рН	Noinformation available.
Melting point	Noinformation available.
Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	Noinformation available.
Flammability (solid, gas)	Noinformation available.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	Noinformation available.
Relative density	No information available.
Water solubility	soluble

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain setstainingmethod
	Reagent 2, Methylene blue solution
Partition coefficient: n- octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none
9.2 Other data	

none

SECTION 10. Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

Stabilizer

homopolymer from 1-vinyl-2-pyrrolidone, complex with iodine

10.3 Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water., Reducing agents, Metals

10.4 Conditions to avoid no

information available

10.5 Incompatible materials no

information available

10.6 Hazardous decomposition products no information available

SECTION 11. Toxicological information

11.1 Information on toxicological effects Mixture

Acute oral toxicity This information is not available.

Acute inhalation toxicity This information is not available.

Acute dermal toxicity This information is not available.

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Productname	EZN Stain setstainingmethod
	Reagent 2, Methylene blue solution

Skin irritation Possible damages: slight irritation

Eye irritation Possible damages: slight irritation

Sensitisation

Sensitisation possible in predisposed persons.

Germ cell mutagenicity This information is not available.

Carcinogenicity This information is not available.

Reproductive toxicity This information is not available.

Teratogenicity This information is not available.

Specific target organ toxicity - single exposure This information is not available.

Specific target organ toxicity - repeated exposure This information is not available.

Aspiration hazard This information is not available.

11.2 Further information

However, when the product is handled appropriately, hazardous effects are unlikely to occur. Handle in accordance with good industrial hygiene and safety practice.

Components

homopolymer from 1-vinyl-2-pyrrolidone, complex with iodine

Acute dermal toxicity LD50 Dermal Rat: > 2.500 mg/kg (External MSDS)

Skin irritation Rabbit Result: Irritating to skin. OECD Test Guideline 404 (External MSDS)

Eye irritation Rabbit Result: Eye irritation OECD Test Guideline 405 (External MSDS) Causes serious eye damage.

SECTION 12. Ecological information Mixture

12.1 Toxicity

No information available.

12.2 Persistence and degradability

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain setstainingmethod
	Reagent 2, Methylene blue solution

No information available.

12.3 Bioaccumulative potential No information available.

12.4 Mobility in soil No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

Components

homopolymer from 1-vinyl-2-pyrrolidone, complex with iodine Toxicity to fish statictestLC50Leuciscus idus (Goldenorfe): 4,6-10mg/l;96h DIN 38412 (ExternalMSDS)

Toxicity to daphnia and other aquatic invertebrates static test EC50 Daphnia magna (Water flea): 2,79 mg/l; 48 h OECD Test Guideline 202 (External MSDS)

Toxicity to algae static test EC50 Desmodesmus subspicatus (green algae): 4,91 mg/l; 72 h OECD Test Guideline 201 (External MSDS)

Toxicity to bacteria EC50Pseudomonas putida: 380mg/l;17h DIN 38412 (External MSDS)

EC10Pseudomonasputida:270mg/l;17h DIN 38412 (External MSDS)

Biodegradability < 20 % (External MSDS) Not readily eliminated from water.

Partition coefficient: n-octanol/water log Pow: 0,81

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain setstainingmethod
	Reagent 2, Methylene blue solution

SECTION 13. Disposal considerations Waste treatment methods See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14.1 UN number	UN 1993
14.2 Proper shipping name	FLAMMABLE LIQUID, N.O.S.(CONT. ETHANOL, ACETONE)
14.3 Class	3
14.4 Packing group	II
14.5 Environmentally hazardous	
14.6 Special precautions for user	yes
Tunnel restriction code	D/E
Inland waterway transport (ADN) Not	
relevant	
Air transport (IATA)	
14.1 UN number	UN 1993
14.2 Proper shipping name	FLAMMABLE LIQUID, N.O.S.(CONT. ETHANOL, ACETONE)
14.3 Class	3
14.4 Packing group	II
14.5 Environmentally hazardous	
14.6 Special precautions for user	no
Sea transport (IMDG)	
14.1 UN number	UN 1993
14.2 Proper shipping name	FLAMMABLE LIQUID, N.O.S. (CONT. ETHANOL, ACETONE)
14.3 Class	3
14.4 Packing group	II
14.5 Environmentally hazardous	
14.6 Special precautions for user	yes
EmS	F-E S-D

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain setstainingmethod
	Reagent 2, Methylene blue solution

SECTION 15. Regulatory information

15.	1 Safety, health and environmen	tal regulations/legislation	specific for the substance or mixture
	EU regulations		
	Major Accident Hazard Legislation	96/82/EC Directive 96/82/EC does not apply	
		SEVESO III Not applicable	
	Occupational restrictions	Take note of Dir 94/33/E	C on the protection of young people at work.
	Regulation (EC) No 1005/2009 on substances that deplete the ozone layer		not regulated
Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC		9April2004on	not regulated
	Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation
			(EC)No1907/2006 (REACH), Article 57
			above the respective regulatory
			concentration limit of \geq 0.1 % (w/w).
	National legislation		
	Storage class	3	

The data applies to the entire pack.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H 302 Harmful if swallowed.

H412 Available for long time lasting, impressive.

Training advice

Provide adequate information, instruction and training for operators.

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Productname	EZN Stain setstainingmethod
	Reagent 2, Methylene blue solution

Labelling

Hazard statements

H 302 Harmful if swallowed.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P233 Keep container tightly closed.

P241 Use explosion-proof electrical / ventilation / ignition material.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P303, P361, P353 In case of contact with skin (or hair): Remove / Take off immediately all contaminated clothing. Rinse your skin with water / shower.

P370, P378 In case of fire: Use sand, carbon dioxide or powder extinguisher for extinguishing.

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

abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

RTA.GBF.541 Revizyon Tarihi/Revizyon no:01.09.2018/1 Yayın tarih: 15.01.2017

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

1.1 Product identifier

Catalogue No. 07005 Product name: EZN Stain set staining method Reagent 3, Acid Alcohol solution Company: RTA Laboratuvarları Biyolojik Ürünler, İlaç ve Makine San. Tic. A.Ş. GEPOSB Cumhuriyet Cad. No;3 41400 Gebze-Kocaeli-TÜRKİYE Emergency telephone number: (+ 90) 262 648 53 00

Fax: (+90) 262 751 06 77

Email: rta@rtalabs.com.tr

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)
Flammable liquid, Category 2, H225
Eye irritation, Category 2, H319
Specific target organ toxicity - single exposure, Category 3, Central nervous system, H336
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



according to Regulation (EC) No. 1907/2006

Catalogue No. Product name 07005 EZN Stain set staining method Reagent 3, Acid Alcohol solution

Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

Prevention

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

P240 Ground/bond container and receiving equipment. Response

P305+P351+P338IFINEYES: Rinse cautiously with waterfor several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Reduced labelling (≤125 ml)

Hazard pictograms



Signal word Danger

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

Contains: acetone

2.3 Other hazards

None known.

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain set staining method
	Reagent 3, Acid Alcohol solution

SECTION 3. Composition/information on ingredients

Chemical nature

Mixture of solvents.

3.1 Substance Not

applicable

CAS-No.

3.2 Mixture

Hazardous components (REGULATION (EC) No 1272/2008)

Registration number

Chemical name (Concentration)

ethanol (>= 50 % - <= 100 %) Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

64-17-5 01-2119457610-43-

•••••		
	XXXX	Flammable liquid, Category 2, H225
		Eye irritation, Category 2, H319
HCL	231-595-7	Abrasive for Metals, Category 1, H290 Skin Wear, Category 1B, H314 Specific target organ toxicity - single exposure, Category 3, H335

Classification

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air. Call in physician.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Productname	EZN Stain set staining method
	Reagent 3, Acid Alcohol solution

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

irritant effects, Dermatitis, Drowsiness, somnolence, narcosis Drying-out effect resulting in rough and chapped skin. The following applies to aliphatic alcohols in general: effect when product is nothandled and used properly: mucosal irritations; after absorption of large quantities: narcosis. The following applies to ketones in general: when vapours/aerosols occur, mucosal irritations, coughing, and dyspnoea after inhalation. The absorption of large quantities leads to: CNS depression (narcosis). Repeated skin contact leads to a degreasing effect, with secondary inflammation possible. Toxic effects on the liver and kidneys cannot be excluded after high doses. The inhalation of droplets may result in the formation of oedemas in the respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Combustible. Pay attention to flashback. Forms explosive mixtures with air at ambient temperatures. Vapours are heavier than air and may spread along floors. Developmentofhazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus.

Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain set staining method
	Reagent 3, Acid Alcohol solution

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Observe label precautions.

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep away from heat and sources of ignition. Keep container tightly closed in a dry and well- ventilated place.

Recommended storage temperature see product label.

The data applies to the entire pack.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL)

ethanol (64-17-5) Worker DNEL, acute	Local effects	inhalation	1900 mg/m³
		Innalation	1000 mg/m
Worker DNEL, longterm	Systemic effects	dermal	343 mg/kg Body weight
Worker DNEL, longterm	Systemic effects	inhalation	950 mg/m³
Consumer DNEL, acute	Local effects	inhalation	950 mg/m³
Consumer DNEL, longterm	Systemic effects	dermal	206 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	inhalation	114 mg/m³

according to Regulation (EC) No. 1907/2006

Catalogue No. Product name		07005 EZN Stain set staining method Reagent 3, Acid Alcohol solution		
	Reag			
Consumer DNEL, longterm	Systemic effects	oral 87 mg/kg Body weight		
Predicted No Effe	ect Concentration (PNEC))		
8.2 Exposure control	ls			

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection Safety glasses

Hand protection

full contact:

	Glove material:	butyl-rubber
	Glove thickness:	0,7 mm
	Break through time:	> 480 min
splash contact:		
	Glove material:	natural latex
	Glove material: Glove thickness:	natural latex 0,6 mm

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain set staining method
	Reagent 3, Acid Alcohol solution

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 898 Butoject® (full contact), KCL 706 Lapren® (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment Flame retardant antistatic protective clothing.

Respiratory protection

required when vapours/aerosols are generated.

Recommended Filter type: Filter AX (EN 371)

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls Do

notletproductenterdrains. Risk of explosion.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	of solvents
Odour Threshold	No information available.
рН	No information available.
Melting point	No information available.
Boiling point	No information available.
Flash point	-10 °C
Evaporation rate	Noinformation available.
Flammability (solid, gas)	Noinformation available.
Lower explosion limit	Noinformation available.

according to Regulation (EC) No. 1907/2006

Catalogue No. Product name	07005 EZN Stain set staining method Reagent 3, Acid Alcohol solution
Upper explosion limit	Noinformation available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	2,0-2,1 g/cm3 at 20 °C
Relative density	No information available.
Water solubility	at 20 °C soluble
Partition coefficient: n- octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none
9.2 Other data	
Ignition temperature	> 425 °C

SECTION 10. Stability and reactivity

10.1 Reactivity

Vapours may form explosive mixture with air.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Risk of explosion/exothermic reaction with:

hydrogen peroxide, perchlorates, perchloric acid, Nitric acid, mercury(II) nitrate, permanganic acid, Nitriles, peroxi compounds, Strong oxidizing agents, nitrosyl compounds, Peroxides, sodium, Potassium, halogen oxides, calcium hypochlorite, nitrogen dioxide, metallic oxides, uranium hexafluoride, iodides, Chlorine, Alkali metals, Alkaline earth metals, alkali oxides, Ethylene oxide, silver, potassium permanganate, silver compounds, Ammonia, conc. sulfuric acid

Risk of ignition or formation of inflammable gases or vapours with:

halogen-halogen compounds, chromium(VI) oxide, chromyl chloride, Fluorine, hydrides, Oxides of phosphorus, platinum

according to Regulation (EC) No. 1907/2006

Catalogue No. Product name	07005 EZN Stain set staining method Reagent 3, Acid Alcohol solution
10.4 Conditions to avoid Warming.	
10.5 Incompatible materials rubber, various plastics	
10.6 Hazardous decomposition pr information available	oducts no
SECTION 11. Toxicological infor 11.1 Information on toxicological e Mixture	
Acute oral toxicity Symptoms: Possible damages gastrointestinal tract.	:, Irritations of mucous membranes in the mouth, pharynx, oesophagus and
Acute inhalation toxicity	
Symptoms: Possible dama Acute dermal toxicity This information is not availa Skin irritation	able.
This information is not availa Eye irritation Mixture causes serious eye	
Sensitisation This information is not availa	able.
Germ cell mutagenicity This information is not availa	able.
Carcinogenicity This information is not availa	able.
Reproductive toxicity This information is not availa	able.
Teratogenicity This information is not availa	able.
Specific target organ toxici Mixture may cause drowsi	ty - single exposure ness or dizziness.Target Organs: Central nervous system
Specific target organ toxicity This information is not availa	
Aspiration hazard This information is not availa	able.

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain set staining method
	Reagent 3, Acid Alcohol solution

The following applies to ketones in general: when vapours/aerosols occur, mucosal irritations, coughing, and dyspnoea after inhalation. The absorption of large quantities leads to: CNS depression (narcosis). Repeated skin contact leads to a degreasing effect, with secondary inflammation possible. Toxic effects on the liver and kidneys cannot be excluded after high

doses. The inhalation of droplets may result in the formation of oedemas in the respiratory tract.

The following applies to aliphatic alcohols in general: effect when product is not handled and used properly: mucosal irritations; after absorption of large quantities: narcosis.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Components

ethanol

Acute oral toxicity LD50 Rat: 10.470 mg/kg OECD Test Guideline 401

Acute inhalation toxicity LC50 Rat: 124,7 mg/l; 4h; vapour OECD Test Guideline 403

Skin irritation Rabbit Result: No skin irritation OECD Test Guideline 404

Eye irritation Rabbit Result: Eye irritation OECD Test Guideline 405

Sensitisation Sensitisation test (Magnusson and Kligman): Result: negative (IUCLID)

Germ cell mutagenicity Genotoxicity in vitro Ames test Salmonella typhimurium Result: negative Method: OECD Test Guideline 471

In vitro mammalian cell gene mutation test Mouse lymphoma test Result: negative Method: OECD Test Guideline 476

Reproductive toxicity Application Route: Oral Mouse Method: OECD Test Guideline 416

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain set staining method
	Reagent 3, Acid Alcohol solution

SECTION 12. Ecological information Mixture

12.1 Toxicity

No information available.

- **12.2 Persistence and degradability** No information available.
- **12.3 Bioaccumulative potential** No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

according to Regulation (EC) No. 1907/2006

Catalogue No.

Product name

07005 EZN Stain set staining method Reagent 3, Acid Alcohol solution

Components

ethanol Toxicity to fish LC50 Leuciscus idus (Golden orfe): 8.140 mg/l; 48 h (IUCLID)

Toxicity to daphnia and other aquatic invertebrates EC5 E.sulcatum: 65 mg/l; 72 h (Lit.)

EC50 Daphnia magna (Water flea): 9.268 - 14.221 mg/l; 48 h (IUCLID)

Toxicity to algae IC5 Scenedesmus quadricauda (Green algae): 5.000 mg/l; 7 d (Lit.)

Toxicity to bacteria EC5 Pseudomonas putida: 6.500 mg/l; 16 h (IUCLID)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) semistatic test NOEC Daphnia magna (Water flea): 9,6 mg/l; 9 d (ECHA)

Biodegradability 94 % OECD Test Guideline 301E Readily biodegradable

Biochemical Oxygen Demand (BOD) 930-1.670 mg/g (5 d) (Lit.)

Theoretical oxygen demand (ThOD) 2.100 mg/g (Lit.)

Ratio COD/ThBOD 90 % (Lit.)

Partition coefficient: n-octanol/water log Pow: -0,31 (experimental) (Lit.) Bioaccumulation is not expected.

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 13. Disposal considerations

Waste treatment methods See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14. Transport information Land transport (ADR/RID)	
14.1 UN number	UN 1993
14.2 Proper shipping name	FLAMMABLE LIQUID, N.O.S.(CONT. ETHANOL, ACETONE)
14.3 Class	3
14.4 Packing group	II

according to Regulation (EC) No. 1907/2006

atalogue No.	07005
roductname	EZN Stain set staining method
	Reagent 3, Acid Alcohol solution
14.5 Environmentally hazardous	
14.6 Special precautions for user	yes
Tunnel restriction code	D/E
Inlandwaterwaytransport(ADN) Not	
relevant	
Air transport (IATA)	

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005	
Productname	EZN Stain set staining method Reagent 3, Acid Alcohol solution	
14.1 UN number	UN 1993	
14.2 Proper shipping name	FLAMMABLE LIQUID, N.O.S.(CONT. ETHANOL, ACETONE)	
14.3 Class	3	
14.4 Packing group	II	
14.5 Environmentally hazardous		
14.6 Special precautions for user	no	
Sea transport (IMDG)		
14.1 UN number	UN 1993	
14.2 Proper shipping name	FLAMMABLE LIQUID, N.O.S.(CONT. ETHANOL, ACETONE)	
14.3 Class	3	
14.4 Packing group	II	
14.5 Environmentally hazardous		
14.6 Special precautions for user	yes	
EmS	F-E S-D	
14.7 Transport in bulk according to	AnnexIIofMARPOL73/78 and the IBC Code Not relevant	
THIS TRANSPORT DATA APP	LIES TO THE ENTIRE PACK!	
SECTION 15. Regulatory information		
•	I regulations/legislation specific for the substance or mixture	
EU regulations		
	96/82/EC Highly flammable 7b	
	Quantity 1: 5.000 t	
	Quantity 2: 50.000 t	

SEVESO III FLAMMABLE LIQUIDS P5c Quantity 1: 5.000 t Quantity 2: 50.000 t

Occupational restrictions TakenoteofDir94/33/EContheprotectionofyoungpeopleat work.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	not regulated
Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on	not regulated
persistent organic pollutants and amending	

Directive 79/117/EEC

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Product name	EZN Stain set staining method
	Reagent 3, Acid Alcohol solution

Substances of very high concern (SVHC)

This product does not contain substances of very high concern according to Regulation (EC)No1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of \geq 0.1 % (w/w).

National legislation Storage class 3 The data applies to the entire pack.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H225	Highlyflammableliquidandvapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Training advice

Provide adequate information, instruction and training for operators.

Labelling Hazard pictograms



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

according to Regulation (EC) No. 1907/2006

Catalogue No.	07005
Productname	EZN Stain set staining method
	Reagent 3, Acid Alcohol solution

H336 May cause drowsiness or dizziness.

Precautionary statements
Prevention
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P240
Ground/bond container and receiving equipment.
Response
P305+P351+P338IFINEYES: Rinse cautiously with water for several minutes. Remove contact lenses, if the several minutes are also been as the sever
present and easy to do. Continue rinsing.
Storage
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Key or legend to abbreviations and acronyms used in the safety data sheet Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

according to Regulation (EC) No. 1907/2006

Catalogue No. Product name 07005 EZN Stain set staining method Reagent 3, Acid Alcohol solution