



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

RTA.GBF.542 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. 07006

Product name: EZN Stain setstainingmethod

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)No1272/2008)

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



Signal word

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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 to do. Rinse continuously**

Reduced labelling ( $\leq 125$  ml)

Hazard pictograms



Signal word

Warning

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

## 2.3 Other hazards

None known.

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## SECTION 3. Composition/information on ingredients

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**Chemical nature:** Aqueous-ethanolic dye solution.

## 3.1 Substance Not

applicable

## 3.2 Mixture

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

Chemical name (Concentration)

CAS-No.	Registration number	Classification
ethanol (>= 3 % - < 10 % ) 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

*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.

108-95-2 01-2119471329-32-XXXX  
Germ cell mutagenicity, Category 2, H341  
Acute toxicity, Category 3, H331  
Acute toxicity, Category 3, H311  
Acute toxicity, Category 3, H301  
Specific target organ toxicity - repeated exposure, Category 2, H373  
Skin corrosion, Category 1B, H314

\*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH 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.

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## 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 toxicsymptoms.

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

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## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media  
Water, Foam, Carbon dioxide (CO<sub>2</sub>), 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.  
Development of hazardous 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.

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## 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.

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## 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.

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## 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.

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## 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/m <sup>3</sup>
Worker DNEL, longterm	Systemic effects	dermal	343 mg/kg Body weight
Worker DNEL, longterm	Systemic effects	inhalation	950 mg/m <sup>3</sup>
Consumer DNEL, acute	Local effects	inhalation	950 mg/m <sup>3</sup>
Consumer DNEL, longterm	Systemic effects	dermal	206 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	inhalation	114 mg/m <sup>3</sup>

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Consumer DNEL, longterm Phenol (108-95-2)	Systemic effects	oral	87 mg/kg Body weight
Worker DNEL, longterm	Systemic effects	inhalation	8 mg/m <sup>3</sup>
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 sediment		0,0915 mg/kg	
PNEC Marine sediment		0,00915 mg/kg	
PNEC Soil		0,136 mg/kg	
PNEC Sewage treatment 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:

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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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](http://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.

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## 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.
pH	No information available.
Melting point	No information available.
Boiling point	No information available.
Flash point	47,7 °C
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.



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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

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## 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

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## 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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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; 4 h; 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  
Invitro study  
Result: Causes burns.  
OECD Test Guideline 431

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Eye irritation  
Rabbit  
Result: Corrosive  
OECD Test Guideline 405

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

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

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

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## 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) semi-static test  
NOEC *Daphnia magna* (Water flea): 9.6 mg/l; 9 d (ECHA)

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## 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)

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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  
IC50 *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 (5d)  
(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

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## SECTION 13. Disposal considerations

Waste treatment methods

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

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## 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
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!

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## 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.
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Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	not regulated
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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	not regulated
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Substances of very high concern (SVHC)	This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of $\geq 0.1$ % (w/w).
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#### 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.



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## 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.**

**H373 Long 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.**

**H373 Long 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](http://www.wikipedia.org).

### Regional representation

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

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

### 1.1 Product identifier

Catalogue No. 07006

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](mailto:rta@rtalabs.com.tr)

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## 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.

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## 2.3 Other hazards

None known.

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## SECTION 3. Composition/information on ingredients

Chemical nature Aqueoussolutionofinorganicandorganiccompounds.

### 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 1907/2006, Annex XIII.		
64-17-5	01-2119457610-43-	
	XXXX	Flammable liquid, Category 2, H225 Eye irritation, Category 2, H319

Mehtylene blue 61-73-4 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 2 REACH 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.

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## 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.

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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.

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according to Regulation (EC) No. 1907/2006

Catalogue No.	07006
Product name	EZN Stain setstainingmethod Reagent 2, Methylene blue solution

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**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

Cover drains. 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<sup>+</sup>, 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

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---

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

splash contact:

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

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---

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](http://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
pH	No information available.
Melting point	No information available.
Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	No information available.
Relative density	No information available.
Water solubility	soluble

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---

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.



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---

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

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---

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  
static test LC50 *Leuciscus idus* (Golden orfe): 4,6-10 mg/l; 96 h DIN  
38412 (External MSDS)

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  
EC50 *Pseudomonas putida*: 380 mg/l; 17 h DIN  
38412 (External MSDS)

EC10 *Pseudomonas putida*: 270 mg/l; 17 h DIN  
38412 (External MSDS)

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

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

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---

## SECTION 13. Disposal considerations

Waste treatment methods

See [www.retrologistik.com](http://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
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!

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---

## SECTION 15. Regulatory information

### 15.1 Safety, health and environmental 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/EC on the protection of young people at work.
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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	not regulated
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Substances of very high concern (SVHC)	This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (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.

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Product name	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](http://www.wikipedia.org).

## Regional representation

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

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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.542 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. 07006

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: [rtalabs.com.tr](mailto:rtalabs.com.tr)

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification(REGULATION(EC)No1272/2008)

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



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according to Regulation (EC) No. 1907/2006

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---

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+P338 IF IN EYES: Rinse cautiously with water for 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.

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---

## SECTION 3. Composition/information on ingredients

Chemical nature Mixture of solvents.

**3.1 Substance** Not applicable

**3.2 Mixture**

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

Chemical name (Concentration)

CAS-No.	Registration number	Classification
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ethanol (>= 50 % - <= 100 % )		
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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-	
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XXXX		
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Flammable liquid, Category 2, H225
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Eye irritation, Category 2, H319
----------------------------------

HCL	231-595-7	
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Abrasive for Metals, Category 1, H290
---------------------------------------

Skin Wear, Category 1B, H314
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Specific target organ toxicity - single exposure, Category 3, H335
--------------------------------------------------------------------

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.



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---

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 not handled 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 (CO<sub>2</sub>), 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.

Development of hazardous 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

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---

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/m <sup>3</sup>
Worker DNEL, longterm	Systemic effects	dermal	343 mg/kg Body weight
Worker DNEL, longterm	Systemic effects	inhalation	950 mg/m <sup>3</sup>
Consumer DNEL, acute	Local effects	inhalation	950 mg/m <sup>3</sup>
Consumer DNEL, longterm	Systemic effects	dermal	206 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	inhalation	114 mg/m <sup>3</sup>

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---

Consumer DNEL, Systemic effects oral 87 mg/kg Body weight  
longterm

## Predicted No Effect Concentration (PNEC)

### 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: butyl-rubber  
Glove thickness: 0,7 mm  
Break through time: > 480 min

splash contact:

Glove material: natural latex  
Glove thickness: 0,6 mm  
Break through time: > 10 min

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---

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](http://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 entrepreneur 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

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

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---

Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	2,0-2,1 g/cm <sup>3</sup> 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
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## 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, nitrogendioxide, 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

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---

## 10.4 Conditions to avoid

Warming.

## 10.5 Incompatible materials

rubber, various plastics

## 10.6 Hazardous decomposition products no

information available

---

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### Mixture

Acute oral toxicity

Symptoms: Possible damages:, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Acute inhalation toxicity

Symptoms: Possible damages:, mucosal irritations

Acute dermal toxicity

This information is not available.

Skin irritation

This information is not available.

Eye irritation

Mixture causes serious eye irritation.

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

Mixture may cause drowsiness or dizziness. Target Organs: Central nervous system

Specific target organ toxicity - repeated exposure

This information is not available.

Aspiration hazard

This information is not available.

### 11.2 Further information

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---

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

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according to Regulation (EC) No. 1907/2006

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Product name	EZN Stain set staining method Reagent 3, Acid Alcohol solution

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## 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.



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## 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) semi-static 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.

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## SECTION 13. Disposal considerations

### Waste treatment methods

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

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## 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

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<b>14.5 Environmentally hazardous</b>	--
<b>14.6 Special precautions for user</b>	yes

Tunnel restriction code	D/E
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**Inland waterway transport (ADN)** Not relevant

**Air transport (IATA)**

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**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!

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## 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 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/EContheprotectionofyoungpeopleatwork.

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 not regulated

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Substances of very high concern (SVHC)

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (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.

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## SECTION 16. Other information

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

H225 Highly flammable liquid and vapour.

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.

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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+P338 IF IN EYES: Rinse cautiously with water for 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.

**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](http://www.wikipedia.org).

## Regional representation

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

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