

Fastin Elastin Assay kit

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Revision date: 07/08/2025 Supersedes version of: 12/05/2021 Version: 11.0

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

1.1. Product identifier

Product form : Article
Product name : Fastin Elastin Assay kit
Type of product : Laboratory testing kit containing dyes, reagents, standards, etc.

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

Relevant identified uses

Intended for general public
Main use category : Professional use
Use of the substance/mixture : Dye-binding method for the analysis of elastins

Uses advised against

Restrictions on use : Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Biocolor Ltd
Catalyst Concourse Building 2
20 Queens Road
Titanic Quarter
BT3 9DT Belfast
United Kingdom
T +44 (0) 28 93369716
info@biocolor.co.uk, www.biocolor.co.uk

1.4. Emergency telephone number

Emergency number : +44 (0) 28 93350258 (Mon-Fri 08:30-16:30)

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3	H226
Skin corrosion/irritation, Category 1, Sub-Category 1A	H314
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

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

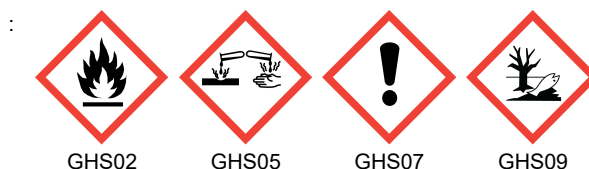
Adverse physicochemical, human health and environmental effects

None under normal use.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: trichloroacetic acid; oxalic acid dihydrate; hydrochloric acid; propan-1-ol; guanidinium chloride

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.
H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P260 - Do not breathe vapours, spray.
P264 - Wash hands thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective clothing, eye protection, face protection.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER, a doctor.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Extra phrases

: The classification, labelling and advice given for this kit is based on the following hazardous components:
1x25ml bottle Precipitating Reagent H314 1A, H335, H411
1x28ml bottle Dye Dissociation Reagent H315, H226, H318, H336.

Child-resistant fastening

: Applicable

Tactile warning

: Applicable

2.3. Other hazards

Other hazards which do not result in classification : None under normal conditions.

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	trichloroacetic acid (76-03-9), hydrochloric acid (7647-01-0), propan-1-ol (71-23-8), guanidinium chloride (50-01-1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	trichloroacetic acid (76-03-9), hydrochloric acid (7647-01-0), propan-1-ol (71-23-8), guanidinium chloride (50-01-1)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propan-1-ol substance with national workplace exposure limit(s) (GB)	CAS-No.: 71-23-8 EC-No.: 200-746-9 EC Index-No.: 603-003-00-0	30 – 40	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336
guanidinium chloride	CAS-No.: 50-01-1 EC-No.: 200-002-3 EC Index-No.: 607-148-00-0	20 – 30	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Irrit. 2, H319 Skin Irrit. 2, H315
trichloroacetic acid	CAS-No.: 76-03-9 EC-No.: 200-927-2 EC Index-No.: 607-004-00-7	5 – 15	Skin Corr. 1A, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
oxalic acid dihydrate	CAS-No.: 6153-56-6 EC-No.: 612-167-2	5 – 15	Acute Tox. 4 (Oral), H302 (ATE=1080 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Skin Corr. 1, H314 Eye Dam. 1, H318
hydrochloric acid substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 7647-01-0 EC-No.: 231-595-7 EC Index-No.: 017-002-01-X	5 – 15	Skin Corr. 1B, H314 STOT SE 3, H335

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
trichloroacetic acid	CAS-No.: 76-03-9 EC-No.: 200-927-2 EC Index-No.: 607-004-00-7	(1 ≤ C ≤ 100) STOT SE 3; H335
hydrochloric acid	CAS-No.: 7647-01-0 EC-No.: 231-595-7 EC Index-No.: 017-002-01-X	(10 ≤ C < 25) Skin Irrit. 2; H315 (10 ≤ C < 25) Eye Irrit. 2; H319 (10 ≤ C ≤ 100) STOT SE 3; H335 (25 ≤ C ≤ 100) Skin Corr. 1B; H314

Comments

: The classification, labelling and advice given for this kit is based on the following hazardous components:

1x25ml bottle Precipitating Reagent H314 1A, H335, H411

1x28ml bottle Dye Dissociation Reagent H315, H226, H318, H336

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a doctor.
First-aid measures after skin contact	: Take off contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact, immediately rinse eyes with plenty of water for at least 15 minutes. Get immediate medical advice/attention.
First-aid measures after ingestion	: If swallowed: rinse mouth. Do NOT induce vomiting. Drink plenty of water. Get medical advice/attention if you feel unwell.

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

Symptoms/effects after inhalation	: May cause respiratory irritation. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes severe skin burns and eye damage.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: None.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing agent suitable for surrounding fire. Dry chemical, CO ₂ , or water spray or regular foam.
Unsuitable extinguishing media	: None.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions	: Do not allow run-off from fire-fighting to enter drains or water courses.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Use self-contained breathing apparatus and chemically protective clothing. Do not breathe vapours. Avoid contact with skin and eyes. Ventilate the area thoroughly. No flames, no sparks. Eliminate all sources of ignition.
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For non-emergency personnel

Protective equipment	: For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: No action shall be taken without appropriate training or involving any personal risk. Do not get in eyes, on skin, or on clothing.

For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Wear personal protective equipment. Stop leak if safe to do so. Ventilate area. Clear up spills immediately and dispose of waste safely. Follow precautions for safe handling described in this safety data sheet. Always wash hands after handling the product.

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6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Toxic to aquatic life with long lasting effects.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain or absorb spilled liquid with earth or other absorbent material. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. After cleaning, flush traces away with water. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

6.4. Reference to other sections

SECTION 8. SECTION 11. SECTION 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing vapours. Wear protective gloves, protective clothing, eye protection, face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible products : Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Dye-binding method for the analysis of elastins.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Fastin Elastin Assay kit	
United Kingdom - Occupational Exposure Limits	
Local name	Propan-1-ol
WEL TWA (OEL TWA)	500 mg/m ³
	200 ppm
WEL STEL (OEL STEL)	625 mg/m ³
	250 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
hydrochloric acid (7647-01-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Hydrogen chloride
IOEL TWA	8 mg/m ³
	5 ppm

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hydrochloric acid (7647-01-0)	
IOEL STEL	15 mg/m ³
	10 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Hydrogen chloride
WEL TWA (OEL TWA)	2 mg/m ³ gas and aerosol mists
	1 ppm gas and aerosol mists
WEL STEL (OEL STEL)	8 mg/m ³ gas and aerosol mists
	5 ppm gas and aerosol mists
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
propan-1-ol (71-23-8)	
United Kingdom - Occupational Exposure Limits	
Local name	Propan-1-ol
WEL TWA (OEL TWA)	500 mg/m ³
	200 ppm
WEL STEL (OEL STEL)	625 mg/m ³
	250 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
DNEL and PNEC	
trichloroacetic acid (76-03-9)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	1.41 mg/kg bodyweight/day
Acute - systemic effects, inhalation	124.3 mg/m ³
Acute - local effects, dermal	5 % in mixture
Long-term - systemic effects, dermal	1.41 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	124.3 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	0.705 mg/kg bodyweight/day
Acute - systemic effects, inhalation	61.3 mg/m ³
Acute - systemic effects, oral	0.705 mg/kg bodyweight/day
Acute - local effects, dermal	5 % in mixture
Long-term - systemic effects, oral	0.705 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	61.3 mg/m ³
Long-term - systemic effects, dermal	0.705 mg/kg bodyweight/day
Long-term - local effects, dermal	5 % in mixture
PNEC (Water)	
PNEC aqua (freshwater)	0.17 µg/l

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trichloroacetic acid (76-03-9)	
PNEC aqua (marine water)	0.017 µg/l
PNEC aqua (intermittent, freshwater)	2.7 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.143 µg/kg dw
PNEC sediment (marine water)	0.0143 µg/kg dw
PNEC (Soil)	
PNEC soil	20 µg/kg dw
PNEC (Oral)	
PNEC oral (secondary poisoning)	23.5 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
hydrochloric acid (7647-01-0)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	15 mg/m³
Long-term - local effects, inhalation	8 mg/m³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	15 mg/m³
Long-term - local effects, inhalation	8 mg/m³
guanidinium chloride (50-01-1)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	10.5 mg/m³
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3.5 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.87 mg/m³
Long-term - systemic effects, dermal	0.5 mg/kg bodyweight/day
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	40 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	17.63 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	52.17 mg/m³
Long-term - systemic effects, dermal	20 mg/kg bodyweight/day
Long-term - local effects, dermal	0.17 mg/cm²
Long-term - local effects, inhalation	26.08 mg/m³

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potassium (E,E)-hexa-2,4-dienoate (24634-61-5)

PNEC (Water)

PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	0.1 mg/l
PNEC aqua (intermittent, freshwater)	4.8 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	3.6 mg/kg dwt
PNEC sediment (marine water)	0.36 mg/kg dwt

PNEC (Soil)

PNEC soil	1.67 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	10 mg/l
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8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Good standard of general ventilation.

Personal protection equipment

Personal protective equipment:

Gloves. Protective clothing.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Chemical goggles or safety glasses. ISO 16321-1

Skin protection

Hand protection:

Protective gloves made of latex. Nitrile rubber gloves, natural rubber gloves. PVC gloves. ISO 374-1

Respiratory protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Dye Reagent is red, all other components are colourless.
Odour	: Odourless.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available

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Flash point	: > 32 °C Extrapolated from information in "Fire Protection Guide to Hazardous Materials", 13th Ed., page 325-57 (2002).
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidizing agents. alkalis.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

trichloroacetic acid (76-03-9)

LD50 oral rat	3320 mg/kg bodyweight Animal: rat, 95% CL: 3160 - 3480
LD50 oral	4970 mg/kg bodyweight Animal: mouse, 95% CL: 4700 - 5260

oxalic acid dihydrate (6153-56-6)

LD50 oral rat	1080 mg/kg
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guanidinium chloride (50-01-1)

LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
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Skin corrosion/irritation : Causes severe skin burns.

oxalic acid dihydrate (6153-56-6)

pH 1 @ 126.1 g/l @25 °C

Serious eye damage/irritation : Causes serious eye damage.

oxalic acid dihydrate (6153-56-6)

pH 1 @ 126.1 g/l @25 °C

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation.

hydrochloric acid (7647-01-0)

STOT-single exposure May cause respiratory irritation.

propan-1-ol (71-23-8)

STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

guanidinium chloride (50-01-1)

NOAEL (oral, rat, 90 days) 100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aspiration hazard : Not classified

11.2. Information on other hazards

Other information

Other information : The classification, labelling and advice given for this kit is based on the following hazardous components:
1x25ml bottle Precipitating Reagent H314 1A, H335, H411
1x28ml bottle Dye Dissociation Reagent H315, H226, H318, H336

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Additional information : The classification, labelling and advice given for this kit is based on the following hazardous components:
1x25ml bottle Precipitating Reagent H314 1A, H335, H411
1x28ml bottle Dye Dissociation Reagent H315, H226, H318, H336.

oxalic acid dihydrate (6153-56-6)

EC50 - Crustacea [1] 137 mg/l

guanidinium chloride (50-01-1)

EC50 - Crustacea [1] 70.2 mg/l Test organisms (species): Daphnia magna

EC50 72h - Algae [1] 11.8 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

EC50 72h - Algae [2] 33.5 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

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guanidinium chloride (50-01-1)	
NOEC (chronic)	2.9 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 181 mg/l Test organisms (species): Pimephales promelas Duration: '35 d'

12.2. Persistence and degradability

Fastin Elastin Assay kit	
Persistence and degradability	Rapidly degradable
trichloroacetic acid (76-03-9)	
Persistence and degradability	Not rapidly degradable
oxalic acid dihydrate (6153-56-6)	
Persistence and degradability	Not rapidly degradable
hydrochloric acid (7647-01-0)	
Persistence and degradability	Not rapidly degradable
propan-1-ol (71-23-8)	
Persistence and degradability	Not rapidly degradable
guanidinium chloride (50-01-1)	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

Fastin Elastin Assay kit	
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

Fastin Elastin Assay kit	
Ecology - soil	Miscible with water. Expected to be highly mobile in soil.

12.5. Results of PBT and vPvB assessment

Fastin Elastin Assay kit	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	trichloroacetic acid (76-03-9), hydrochloric acid (7647-01-0), propan-1-ol (71-23-8), guanidinium chloride (50-01-1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	trichloroacetic acid (76-03-9), hydrochloric acid (7647-01-0), propan-1-ol (71-23-8), guanidinium chloride (50-01-1)

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: This material and its container must be disposed of as hazardous waste. Incineration is recommended however disposal methods must take into account the substances added to the kit by the end user. Dyes must never be disposed of to drains or water courses.

HP Code

: HP3 - "Flammable:"

– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;

– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;

– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;

– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;

– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;

– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

HP8 - "Corrosive:" waste which on application can cause skin corrosion.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3316	UN 3316	UN 3316	UN 3316	UN 3316
14.2. UN proper shipping name				
CHEMICAL KIT	CHEMICAL KIT	Chemical kit	CHEMICAL KIT	CHEMICAL KIT
Transport document description				
UN 3316 CHEMICAL KIT, 9, II, (E), ENVIRONMENTALLY HAZARDOUS	UN 3316 CHEMICAL KIT, 9, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3316 Chemical kit, 9, II, ENVIRONMENTALLY HAZARDOUS	UN 3316 CHEMICAL KIT, 9, II, ENVIRONMENTALLY HAZARDOUS	UN 3316 CHEMICAL KIT, 9, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
9	9	9	9	9
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-A EmS-No. (Spillage): S-P	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes

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ADR	IMDG	IATA	ADN	RID
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: M11
Special provisions (ADR)	: 251, 340, 671
Limited quantities (ADR)	: See SP 251
Excepted quantities (ADR)	: See SP 340
Packing instructions (ADR)	: P901
Transport category (ADR)	: 2
Tunnel restriction code (ADR)	: E
EAC code	: 2Z

Transport by sea

Special provisions (IMDG)	: 251, 340
Packing instructions (IMDG)	: P901
Stowage category (IMDG)	: A

Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y960
PCA limited quantity max net quantity (IATA)	: 1kg
PCA packing instructions (IATA)	: 960
PCA max net quantity (IATA)	: 10kg
CAO packing instructions (IATA)	: 960
CAO max net quantity (IATA)	: 10kg
Special provisions (IATA)	: A44, A163
ERG code (IATA)	: 9L

Inland waterway transport

Classification code (ADN)	: M11
Special provisions (ADN)	: 251, 340
Limited quantities (ADN)	: See SP 251
Excepted quantities (ADN)	: See SP 340
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: M11
Special provisions (RID)	: 251, 340, 671
Limited quantities (RID)	: see SP251
Excepted quantities (RID)	: see SP340
Packing instructions (RID)	: P901
Transport category (RID)	: See SP 671
Hazard identification number (RID)	: 90

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

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REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

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

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

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

trichloroacetic acid
hydrochloric acid
propan-1-ol
guanidinium chloride

SECTION 16: Other information

Indication of changes:

Sds reformatted, no change to classification.

Indication of changes		
Section	Changed item	Comments
	Supersedes version of	Modified
	Revision date	Modified
1.3	Supplier information	Modified
2.2	Extra phrases	Modified
6.1	Protective equipment	Modified
6.1	Emergency procedures	Modified
13.1	HP Code	Added

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration

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Abbreviations and acronyms:

EC-No.	European Community number
IATA	International Air Transport Association
	IBC Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IMO)
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
NOAEL	No-Observed Adverse Effect Level
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative

Data sources : ECHA (European Chemicals Agency). Supplier's safety documents.

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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Full text of H- and EUH-statements:	
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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