



Safety data sheet

ZEASTANDARD (SDS.P44.V4)

SDS according to (EC) No. 1907/2008/EC

Issued: April 2018

Valid: April 2020

Section 1 – Identification of the substance / mixture and of the company undertaking

1.1 Product identifier

Product: ZEASTANDARD
Art. No.: P44 / P44A

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

Identified uses: Chemical standard
Uses advised against: Do not use in application not specified by the supplier

1.3 Details of the supplier of the safety data sheet

Company: R-Biopharm Rhône Ltd
Block 10 Todd Campus
West of Scotland Science Park
Acre Road, Glasgow G20 0XA
Technical phone: + 44 (0) 141 945 2924
Technical fax: + 44 (0) 141 945 2925
E-mail address: info@r-biopharmrhone.com

1.4 Emergency telephone number

+44 (0) 141 945 2924
Monday to Friday 8.30 am - 4.30 pm
English speaking.

Section 2 – Hazards identification

2.1 Classification of the substance or mixture

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

Flammable liquids (category 2), H225
Acute toxicity, Oral (category 4), H302
Acute toxicity, Dermal (category 4), H312
Acute toxicity, Inhalation (category 4), H332
Eye irritation (Category 2), H319

For full text of H statements mentioned in this section, see section 16

2.2 Label elements

Labelling according to EU Regulation (EC) No. 1272/2008
Hazard Pictograms



Signal word: Danger



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Hazard statement(s)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed
H312	Harmful in contact with skin
H319	Causes serious eye irritation
H332	Harmful if inhaled

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition source. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves/protective clothing.
P301+P310	IF SWALLOWED: immediately call a doctor/physician
P305+P351+P338	IF IN EYES: rinse continuously with water for several minutes. Remove contact lenses if present and able to do so. Continue rinsing.

Supplemental hazard None.
Statements

2.3 Other hazards

This substance / mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3 - Composition / information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

3 ml or 6 ml of 1,000 ng/ml standard solution in acetonitrile, contained in an amber glass vial.

Hazardous ingredients according to Regulation (EC) No. 1272/2008

Component	Classification	Concentration
Acetonitrile		
CAS-No. 75-05-8 EC-No. 200-835-2 Index-No. 608-001-00-3	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2; H225, H302, H332, H312, H319	<=100 %

For explanation of abbreviations see section 16.



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Section 4 - First aid measures

4.1 Description of first aid measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of Skin Contact: Wash off with soap and plenty of water. Consult a physician.
In case of Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 and section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

Section 5 - Fire fighting measures

5.1 Extinguishing media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Flammable, risk of ignition. Vapours may form explosive mixtures with air. Carbon oxides, nitrogen oxides may be produced.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting, if necessary.

5.4 Further information

Use water spray to cool unopened containers.

Section 6 - Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for contaminant and cleaning up

Contain spillage, and then collect by wet brushing and place in container for disposal according to local regulations (see section 13).

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6.4 Reference to other sections

For disposal see section 13.

Section 7 - Handling and storage**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition – No smoking. Take measures to prevent build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store at 2 - 8°C. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to avoid leakage.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1, no other specific uses are stipulated.

Section 8 - Exposure controls / personal protection**8.1 Components with workplace control parameters**

Component	CAS-No.	Value	Control parameters	Basis
Acetonitrile	75-05-8	TWA	40 ppm	Europe. Indicative occupational exposure limit values
			70 mg / m3	
	Remarks	Identifies the possibility of significant uptake through the skin indicative		
		TWA	40 ppm	UK. EH40 WEL - workplace exposure limits
			68 mg / m3	
		STEL	60 ppm	UK. EH 40 WEL - work-place exposure limits
			102 mg / m3	



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8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal Protective Equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection

Wear lab coat.

Respiratory protection

Not applicable.

Control of environmental exposure

No data available.

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Section 9 - Physical and chemical properties**9.1. Information on basic physical and chemical properties**

a	Appearance	Form: liquid
		Colour: colourless
b	Odour	No data available
c	Odour threshold	No data available
d	pH	No data available
e	Melting pt. / freezing pt.	No data available
f	Initial boiling point	No data available
g	flash point	No data available
h	Evapouration rate	No data available
i	Flammability (solid, gas)	No data available
j	Upper / lower explosion limit	No data available
k	Vapour pressure	No data available
l	Vapour density	No data available
m	Relative density	No data available
n	Water solubility	No data available
o	Partition coefficient: noctanol / water	No data available
p	Auto-ignition temperature	No data available
q	Decomposition temperature	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	Oxidizing properties	No data available

9.2 Other safety information

No data available.



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Section 10 - Stability and reactivity

10.1 Reactivity

No data available.

10.2. Chemical stability

SHELF LIFE:

See product labelling for shelf life of kit.

Stable for 8 weeks if stored at 2 - 8 °C.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Light, heat, flames and sparks.

10.5. Incompatible materials

Incompatible with strong oxidising agents, strong acids and strong bases.

10.6. Hazardous decomposition products

No data available.

Section 11 - Toxicological information

11.1 Information on toxicological effects

Likely routes of exposure:

Skin and eyes, inhalation and accidental ingestion.

Acute toxicity

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

Skin / eye corrosion / irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity/ carcinogenicity and reproductive toxicity

Product is not expected to be mutagenic, carcinogenic or a reproductive toxicant. No component of this product equal to or greater than 0.1% has been identified by IARC, ACGIH, OSHA or NTP to be carcinogenic.

STOT – single/ repeated exposure

No data available.

Aspiration toxicity

No data available.



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Additional information

RTECS: Not available.

Treat as cyanide poisoning. Always have on hand a cyanide first aid kit, together with proper instructions. The onset of symptoms is generally delayed pending conversion to cyanide. Headache, dizziness, rash, cyanosis, excitement, depression, drowsiness.

Section 12 - Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Do not allow to enter drains, sewers or watercourses.

Section 13 - Disposal

13.1 Waste treatment methods

Prior to disposal, excess standard solutions should be treated with at least one-tenth their volume of 5 % sodium hypochlorite.

Material to be decontaminated should be soaked for 30 minutes in a 5 % hypochlorite solution followed by the addition of 5 % acetone. Allow standing for a further 30 minutes before disposal.

Dispose of decontaminated waste by incineration if regulations permit.

Alternatively, flush decontaminated liquids to waste with a large excess of water if regulations permit. Observe all local and national regulations on waste disposal.



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SECTION 14: Transport information

14.1. UN number

ADR/RID: 1648

IMDG: 1648

IATA: 1648

14.2. UN proper shipping name

ADR/RID:

ACETONITRILE, SOLUTION

IMDG:

ACETONITRILE, SOLUTION

IATA:

Acetonitrile, SOLUTION

14.3. Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

14.4. Packaging group

ADR/RID: II

IMDG: II

IATA: II

14.5. Environmental hazards

ADR/RID: no

IMDG marine pollutant: no

IATA: no

14.6. Special precautions for user

No data available.

Section 15 - Regulatory information

This Safety Data Sheet was prepared in accordance with Regulation (EC) No. 1907/2006.

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

No data available.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.



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Section 16 - Other information

Full text of H statements (referred to in sections 2 and 3):

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

List of abbreviations and acronyms:

Acute Tox.4	Acute Toxicity Category 4
CLP	Classification Packaging and Labelling
Flam. Liq. 2	Flammable liquid Category 2
PPE	Personal Protective Equipment
REACH	Registration Evaluation and Authorisation of Chemicals
RTECS	Registry of toxic effects of chemical substances
SDS	Safety Data Sheet
STOT	Specific target organ toxicity

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. R-Biopharm Rhône Ltd shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes.