

SAFETY DATA SHEET MONENSIN SOLUTION (1000X)

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

1.1. Product identifier

Product name MONENSIN SOLUTION (1000X)

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

Identified uses For research use only.

1.3. Details of the supplier of the safety data sheet

Supplier Web: www.bio-rad-antibodies.com

Bio-Rad

Endeavour House Langford Business Park

Kidlington Oxford OX5 1GE

Tel. +44 (0)1865 852700

antibody_safetydatasheets@bio-rad.com

Contact person Technical Services Manager

1.4. Emergency telephone number

Emergency telephone +1 7037415970 (CHEMTREC)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.

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

smoking.

P233 Keep container tightly closed.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ETHANOL 60-100%

CAS number: 64-17-5 EC number: 200-578-6

Classification

Flam. Liq. 2 - H225

MONENSIN SODIUM SALT 0.14%

CAS number: 22373-78-0 EC number: 244-941-7

Classification

Acute Tox. 2 - H300

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

level of disclosure

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Effects may be delayed. Keep affected person under observation. Keep affected person away

from heat, sparks and flames.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. If breathing stops, provide artificial respiration. Get medical attention.

Ingestion Remove affected person from source of contamination. Rinse mouth thoroughly with water.

DO NOT induce vomiting. Get medical attention immediately.

Skin contact Remove affected person from source of contamination. Rinse immediately contaminated

clothing and skin with plenty of water before removing clothes. Get medical attention if any

discomfort continues.

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and

open eyes wide apart. Get medical attention if any discomfort continues.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use

water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Flammable liquid and vapour.

5.3. Advice for firefighters

Protective actions during

firefighting

Ventilate closed spaces before entering them. Move containers from fire area if it can be done without risk. Do not scatter spilled material with more water than needed to fight the fire. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. If

ventilation is inadequate, suitable respiratory protection must be worn. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or

apron, as appropriate.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near

spillage. Stop leak if safe to do so. Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Reference to other sections For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Restricted to professional users. Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking. Avoid spilling, skin and eye contact.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Do not store near heat sources or expose to high temperatures. Keep away from heat, sparks

and open flame.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment





Appropriate engineering

controls

Provide adequate ventilation.

Personal protection Keep separate from food, feedstuffs, fertilisers and other sensitive material.

Eye/face protection Wear chemical splash goggles.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if

a risk assessment indicates skin contact is possible.

Other skin and body

protection

Wear protective clothing.

Hygiene measuresWash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Provide eyewash station.

Respiratory protection Respiratory protection complying with an approved standard should be worn if a risk

assessment indicates inhalation of contaminants is possible.

Environmental exposure

controls

Keep container tightly sealed when not in use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Colourless.

Odour Alcoholic.

Odour threshold Not available.

pH Not available.

Melting point Not available.

Initial boiling point and range Not available.

Flash point Not available.

Evaporation rate Not available.

Evaporation factor Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or

explosive limits

Not available.

Other flammability Not available.

Vapour pressure Not available.

Vapour density Not available.

Relative density Not available.

Bulk density Not available.

Solubility(ies) Soluble in water.

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Partition coefficientNot available.Auto-ignition temperatureNot available.Decomposition TemperatureNot available.ViscosityNot available.

Explosive properties Not available.

Explosive under the influence

Not considered to be explosive.

of a flame

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

No data available.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat, sparks and open flame. Avoid heat, flames and other sources of

ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition

Carbon dioxide (CO2). Sodium oxides

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 20,714.29

Skin corrosion/irritation

Skin corrosion/irritation Conclusive data but not sufficient for classification.

Serious eye damage/irritation

Serious eye damage/irritation Conclusive data but not sufficient for classification.

Skin sensitisation

Skin sensitisation Conclusive data but not sufficient for classification.

Germ cell mutagenicity

Genotoxicity - in vitroConclusive data but not sufficient for classification.

Carcinogenicity

Carcinogenicity Data lacking.

Reproductive toxicity

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Reproductive toxicity - fertility Data lacking.

Specific target organ toxicity - single exposure

STOT - single exposure Conclusive data but not sufficient for classification. Data lacking.

Specific target organ toxicity - repeated exposure

STOT - repeated exposureConclusive data but not sufficient for classification. Data lacking.

Aspiration hazard

Aspiration hazard No data available.

Skin contact May cause irritation.

Eye contact May irritate eyes.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Toxicological information on ingredients.

ETHANOL

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

8,300.0

Species Human

ATE oral (mg/kg) 8,300.0

Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

MONENSIN SODIUM SALT

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

29.0

Species Rat

ATE oral (mg/kg) 29.0

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity No data available.

12.2. Persistence and degradability

Persistence and degradability no data available

12.3. Bioaccumulative potential

Partition coefficient Not available.

Ecological information on ingredients.

ETHANOL

Partition coefficient log Kow: ~ 0.35

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

No information available

12.6. Other adverse effects

Other adverse effects Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

SECTION 14: Transport information

General As supplied, this product is consigned under the Excepted Quantities provisions.

Road transport notes As supplied, this product is consigned under the Excepted Quantities provisions.

Rail transport notes As supplied, this product is consigned under the Excepted Quantities provisions.

Sea transport notes As supplied, this product is consigned under the Excepted Quantities provisions.

As supplied, this product is consigned under the Excepted Quantities provisions. Air transport notes

14.1. UN number

UN No. (ADR/RID) 1170

UN No. (IMDG) 1170

UN No. (ICAO) 1170

UN No. (ADN) 1170

14.2. UN proper shipping name

Proper shipping name (ADR/RID)

ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Proper shipping name (IMDG) ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Proper shipping name (ICAO) ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Proper shipping name (ADN)

ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels



14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ADN packing group II

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-D

ADR transport category 2

Emergency Action Code •2YE

Hazard Identification Number

(ADR/RID)

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Guidance Workplace Exposure Limits EH40.

Approved Classification and Labelling Guide (Sixth edition) L131.

Safety Data Sheets for Substances and Preparations.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information Only trained personnel should use this material.

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SDS number 20381

Hazard statements in full H225 Highly flammable liquid and vapour.

H300 Fatal if swallowed.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.