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SECTION 1: COMPANY AND PRODUCT INFORMATION

1.1 Product identifiers

Product name : MOPS Buffer 1M, pH 8.0

Product code : 41320117 CAS number : 1132-61-2

Synonyms: 3-(N-Morpholino)propanesulfonic acid; 4-Morpholinepropanesulfonic acid

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

Identified uses : For research and laboratory use only.

1.3 Details of the supplier of the safety data sheet

Address : Genelinx International Inc, dba bioWORLD

4150 Tuller Rd. Suite 228

Dublin, OH 43017

Email : tech@bio-world.com

Phone : 614-792-8680, Toll free: 1-888-bio-PLUS

Fax : 614-792-8685

1.4 Emergency telephone number

Emergency phone : 1-888-bio-PLUS

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Substance/mixture is not classified as hazardous.

2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not classified as hazardous under the GHS.

2.3 Label elements and precautionary statements

Pictogram : None Signal word : None

Hazard : No applicable hazard statements.

statement(s)

Precautionary : No applicable precautionary statements.

statement(s)

2.4 Hazards not otherwise classified (HNOC) or not covered by GHS

No unclassified hazards known.

2.5 NFPA Rating

Health hazard : 0
Fire hazard : 0
Reactivity hazard : 0

2.6 HMIS Rating

Health hazard : 0 Chronic health : -

hazard

Reactivity hazard : 0
Flammability : 0
Physical hazard : 0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

All components of this substance are considered to be non-hazardous.

3.2 Hazardous components & classification

No chemicals or constituents are known to be present that require disclosure under applicable regulations.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician if symptoms are severe or persistent. Provide this data sheet to medical personnel. If product is spilled or leaked, evacuate area.

In case of inhalation

If inhaled, move person to fresh air and monitor breathing. If not breathing, give artificial ventilation. Consult a physician if symptoms are severe or persistent.

In case of skin contact

Immediately wash with excess soap and water. If spilled on clothing, remove all affected clothing. Consult a physician if symptoms are severe or persistent.

In case of eye contact

Flush eyes with water or eye wash solution as a precaution for 15 minutes. Consult a physician if symptoms are severe or persistent.

In case of ingestion

Only induce vomiting if recommended by medical personnel. If subject is unconscious, do not give anything by mouth. If conscious, rinse mouth with water. Consult a physician if symptoms are severe or persistent.

4.2 Most important symptoms and effects, both acute and delayed

All known important symptoms are described in Section 2 and/or Section 11. No other important symptoms to report.

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment indicated. Provide treatment in accordance with exhibited systems.

SECTION 5: FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide extinguishers are suitable.

5.2 Unsuitable extinguishing media

No known unsuitable extinguishing media.

5.3 Special hazards arising from the substance

Carbon oxides, nitrogen oxides (NOx), and sulfur oxides can form if fire occurs.

5.4 Advice for firefighters

Wear protective gear, such as self-contained breathing apparatus, if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide suitable ventilation. Use any necessary personal protective equipment. Avoid contact with skin and eyes, and avoid creation and inhalation of vapor or dust. Keep all unnecessary personnel away.

For personal protection see section 8

6.2 Environmental precautions

No environmental precautions required.

6.3 Methods and material for containment and cleaning up

Use inert absorbent material to absorb any spilled or leaked product. Keep in suitable, closed containers for disposal.

For proper disposal see section 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide suitable ventilation. Wear any necessary personal protective equipment.

For precautions see section 2

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Store upright, closed container in arid, ventilated environment.

Incompatible materials : Strong oxidizing agents, acids, and strong bases are incompatible

with this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

This product is not known to contain any substances with occupational exposure limit values.

8.2 Engineering controls

Follow good industrial hygiene and safety practices when handling product.

8.3 Personal protective equipment

Eye/face protection : Use only government-approved safety glasses with side-shields.

Skin protection : Use gloves when handling product. Inspect gloves before use to

ensure suitability for use. Remove without exposing skin to the gloves outer surface. Discard used gloves according to all pertinent laws and/or current good practices (cGXP). Wash hands with soap and

water.

: Wear appropriate clothing. Ensure clothing is in good condition, with Body protection

no holes or tears. When selecting clothing, consider the concentration

and amount of substance to be handled.

Respiratory protection : Use only approved respirators and components which comply with

CDC and NIOSH (US) or CEN (EU) regulations. Required only when

vapors or aerosols are created.

Control of environmental: No environmental precautions required.

exposure

General hygiene

considerations

: Comply with general industrial hygiene practice guidelines.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance : Clear, colorless

b) Physical states : Liquid

Odor : Not available c) d) Odor threshold : Not available

: Not available e) Melting point

Boiling point range : Not available f)

: 8.0 g) На

Density : Not available h)

: Not available Flash point i)

j) Evaporation rate : Not available

k) Flammability : Not available

Upper/lower flammability or : Not available

I) explosive limits:

Vapor pressure : Not available m)

: Not available n) Vapor density

Relative density : Not available 0)

Water solubility : Not available p)

Partition : Not available

q) coefficient:n-octanol/water

r) Autoignition temperature : Not available

: Not available s) Decomposition temperature

t) Kinematic viscosity : Not available

: Not available u) Explosive properties

Oxidizing properties : Not available v)

Solubility in other solvents : Not available w)

: Not available Surface tension x)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No special reactivity is known.

10.2 Chemical stability

Product is stable when stored and used as recommended.

10.3 Stability note(s)

No special or unusual instability known.

10.4 Polymerization

No known polymerization.

10.5 Possibility of hazardous reactions

No hazardous reactions are known.

10.6 Incompatible materials

Strong oxidizing agents, acids, and strong bases are incompatible with this product.

10.7 Hazardous decomposition products

Carbon oxides, nitrogen oxides (NOx), and sulfur oxides can form if fire occurs.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

LD50 Oral : Rat - male and female - >2,000 mg/kg (OECD Test Guideline 423)

LD50 Dermal : No toxicity data available.

LC50 Inhalation : No toxicity data available.

11.2 Skin corrosion/irritation

Rabbit - 4 hrs - no skin irritation (Regulation (EC) No. 440/2008, Annex, B.4)

11.3 Serious eye damage/eye irritation

Chicken - 10 s - no eye irritation (OECD Test Guideline 438)

11.4 Respiratory or skin sensitization

Maximization test - guinea pig - negative (OECD Test Guideline 406)

11.5 Germ cell mutagenicity

Micronucleus test: human lymphocytes - negative

Ames test: S. typhimurium - negative

In vitro mammalian cell gene mutation test; Chinese hamster lung cells - negative

11.6 Carcinogenicity

IARC : Product and components are not regulated by the IARC.

ACGIH : Product and components are not regulated by the ACGIH.

NTP : Product and components are not regulated by the NTP.

OSHA : Product and components are not regulated by OSHA.

11.7 Reproductive toxicity

No reproductive toxicity data available.

11.8 Specific target organ toxicity – single exposure

No specific organ toxicity data available.

11.9 Specific target organ toxicity – repeated exposure

No specific organ toxicity data available.

11.10 Aspiration hazard

No aspiration hazard data available.

11.11 Additional Information

RTECS: QE9104530.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No ecological toxicity data available.

12.2 Aquatic toxicity

Static test LC50 - Danio rero (zebra fish) - 96 hrs - >1,000 mg/L (OECD Test Guideline 203)

Static test EC50 - Daphnia magna (water flea) - 48 hrs - >1,000 mg/L (OECD Test Guideline 202)

Static test ErC50 - Desmodesmus subspicatus (green algae) - 72 hrs - >100 mg/L (OECD Test Guideline 201)

Static test EC10 - activated sludge - 3 hrs - >1,080 mg/L (OECD Test Guideline 209)

12.3 Persistence and degradability

Aerobic - 28 days - 1% - not readily biodegradable (OECD Test Guideline 301B)

12.4 Bioaccumulative potential

No bioaccumulation data available.

12.5 Mobility in soil

No soil mobility data available.

12.6 Results of PBT and vPvB assessment

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

12.7 Other adverse effect

No other adverse effect data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult and adhere to local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

13.2 Packaging

Packaging should be disposed of in the same manner as unused product.

13.3 Recommendation

Disposal must be made according to official regulations.

SECTION 14: TRANSPORTATION INFORMATION

14.1 DOT (US)

Not a dangerous good under DOT(US) regulations.

14.2 IMDG

Not a dangerous good under IMDG regulations.

14.3 IATA

Not a dangerous good under IATA regulations.

SECTION 15: REGULATORY INFORMATION

15.1 SARA

SARA 302: This product and components are not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This product does not contain any components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312: No SARA Hazard

15.2 Clean water act (CWA)

No chemicals are present in this product that are subject to regulation under the Clean Water Act.

15.3 Right to know components

Massachusetts : No chemicals are present which require disclosure under the

Massachusetts Right to Know Act.

Pennsylvania : No chemicals are present which require disclosure under the Pennsylvania

Right to Know Act.

New Jersey : No chemicals are present which require disclosure under the New Jersey

Right to Know Act.

California proposition 65 components

: This product contains no chemicals which are known to the State of California to cause cancer, or birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

16.1 Disclaimer

This product is offered by bioWORLD for research, laboratory or further manufacturing use. Not for human use or consumption. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant-ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall bio-WORLD.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if bio-WORLD.com has been advised of the possibility of such damages.

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16.2 Preparation Information

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