PRODUCT AND COMPANY IDENTIFICATION

| 1.1 | Product Identifiers | |
|-----|--------------------------------|---|
| | Product Form | Mixture (liquid) |
| | Product Brand Name | H2Blue (eco formula) |
| | Manufacturer | H2 Sciences Inc. |
| | Synonyms | Reagent |
| 1.2 | Relevant Identified Uses of | the Substance or Mixture and Uses Advised Against |
| | Identified Uses | Laboratory Test Reagent |
| | No specific uses advised aga | ainst are identified. |
| 1.3 | Details of the Supplier of the | ne Safety Data Sheet |
| | Manufacturer | H2 Sciences Inc. |
| | | 2505 Anthem Village Dr Ste E385 |
| | | Henderson, NV 89052 |
| | Phone | (719) 499-2973 |
| | Email | randy@h2sciencesinc.com |
| | Website | www.h2sciencesinc.com |
| 1.4 | Emergency Telephone Nun | nber |
| | Emergency phone # | (719) 499-2973 |

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HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

GHS-US

Not classified: This mixture is not considered a hazard when used in a manner which is consistent with manufacturer's directions.

2.2 GHS Label Statements, Including Precautionary Statements

GHS Label:



| Signal Word: | Warning | | |
|--------------|-----------|-----------------|---------------|
| HMIS Rating: | Health: 1 | Flammability: 0 | Reactivity: 0 |

Precautionary Statements:

Laboratory test reagent-do not ingest. Keep out of reach of children. Keep only in original container. Do not get in eyes, on skin, or on clothing. IF ON SKIN: Wash with plenty of soap and water IF IN EYES: Remove contact lenses, if present and easy; continue rinsing. If eye irritation persists, get medical advice/attention IF INGESTED: Dilute immediately with water or milk. Induce vomiting. Call a physician.

2.3 Hazards Not Otherwise Classified or Not Covered by GHS

None

COMPOSITION INFORMATION ON INGREDIENTS

3.2 Mixtures

3

Components of Substance or Mixture

| Component | Identifiers | Concentration (by weight) |
|----------------|----------------|---------------------------|
| METHYLENE BLUE | CAS # 61-73-4 | trace |
| METHANOL | CAS# 67-56-1 | 3.2% |
| WATER | CAS# 7732-18-5 | >90% |
| PLATINUM | CAS# 7440-06-4 | trace |

For the full text of the H-Statements mentioned in this section, see Section 16.

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Consult a physician. Show the safety data sheet to the physician in attendance. Move away from dangerous area.

In case of skin contact: Wash off with soap and water

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes keeping eyelids open. Consult a physician if irritation persists.

If swallowed: DO NOT induce vomiting. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Described in the labeling section (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed: No data available

5

FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable - Foam, Dry Powder, Carbon Dioxide, Water Spray, Sand

Unsuitable – Heavy Water Stream

5.2 Special hazards arising from the substance or mixture

Fire Hazard – Not Flammable

Explosion Hazard – Not Explosive

Reactivity - None

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.

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ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected (GFI) vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections: For disposal see section 13.

HANDLING AND STORAGE

7.1 Precautions for safe handling – Laboratory test reagent not intended to be ingested. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

7.2 Conditions for safe storage, including any incompatibilities.

Keep container tightly closed in a cool, dry and well-ventilated place. Avoid freezing; if frozen, allow to thaw at room temperature for 8 hours; do not accelerate thawing by heating.

7.3 Specific end use(s)-Apart from the uses mentioned in section 1.2; no other specific uses are stipulated

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

| METHYLENE BLUE (61-7 | 3-4) |
|----------------------|----------------|
| ACGIH/OSHA | NOT APPLICABLE |
| WATER (7732-18-5) | |
| OSHA | NOT APPLICABLE |
| METHANOL (67-56-1) | |
| ACGIH/OSHA | NOT APPLICABLE |
| PLATINUM (7440-06-4) | |
| ACGIH/OSHA | NOT APPLICABLE |

8.2 Exposure controls

9

Personal protective equipment

Eye contact should be prevented through the use of chemical safety glasses with side shields or splash-proof goggles. An emergency eye wash should be readily accessible to the work area.

To avoid staining of skin, wear gloves when handling.

To avoid staining of clothes, wear protective apron.

PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| · · · · · · · · · · · · · · · · · · · | |
|---|---|
| a) Appearance/Form: | Color; Blue, Liquid |
| b) Odor | No data available |
| c) Odor Threshold | No data available |
| d) pH | 4 |
| e) Melting point/freezing point | No data available |
| f) Initial boiling point and range | Lowest known value is 100°C (212°F) |
| g) Flash point | >93.5°C (200 °F) - closed cup |
| h) Evaporation rate | No data available |
| i) Flammability (solid, gas) | No data available |
| j) U/L flammability limits | No data available |
| k) Vapor pressure | Highest known value is 23.8 torr (@ 25°C) |
| I) Vapor density | Highest known value is 0.8 g/L |
| m) Relative density | No data available |
| n) Water solubility | Miscible in water |
| o) Partition coefficient | No data available |
| p) Auto-ignition temp | No data available |
| q) Decomposition temp | No data available |
| r) Viscosity | No data available |
| s) Explosive properties | No data available |
| t) Oxidizing properties | No data available |
| u) Specific gravity | 0.997 at 20 °C |
| v) VOC (g/L) | 31.82 |
| | |

9.2 Other safety information

No data available

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STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive under recommended usage and storage conditions.

10.2 Chemical stability

Stable under recommended usage and storage conditions.

10.3 Possibility of hazardous reactions

Not established

10.4 Conditions to avoid

Direct sunlight, extremely high or low temperatures

10.5 Incompatible materials

Strong acids, strong bases

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10.6 Hazardous decomposition products

Nitrogen oxides, carbon dioxide, sulfur compounds

TOXICOLOGICAL INFORMATION

Likely routes of exposure: skin and eye contact

11.1 Information on toxicological effects

| METHYLENE BLUE (61-73-4) | |
|--------------------------|-------------------------------|
| LD50 oral rat | 1180 mg/kg |
| ATE US (oral) | 1180.000 mg/kg body weight |
| METHANOL (67-56-1) | |
| LD50 oral rat | 10740 mg/kg (rat; exp. value) |
| ATE US (oral) | 100.000 mg/kg body weight |
| WATER (7732-18-5 | |
| LD50 oral rat | >90000 mg/kg |
| ATE US (oral) | >90000.000 mg/kg body weight |
| PLATINUM (7440-06-4) | No Data Available |

| RTECS: | CAS# 61-73-4 | SO5600000 | |
|--------------------------------------|--------------|---|--|
| Carcinogenicity: | CAS# 61-73-4 | Not listed as a carcinogen by ACGIH, IARC, NIOSH, | |
| | | NTP, OSHA, or CA Prop 65 | |
| Acute toxicity: | | No data available | |
| Inhalation: | | May cause respiratory irritation and breathing difficulty | |
| Dermal: | | May cause skin irritation | |
| Skin corrosion/irritation | | May cause skin irritation | |
| Serious eye damage/irritation | | May cause eye damage or irritation | |
| Respiratory/skin sensiti | zation | No data available | |
| Germ cell mutagenicity | | No data available | |
| Reproductive toxicity | | No data available | |
| Spec. target organ tox. – sgl. exp. | | No data available | |
| Spec. target organ tox. – rptd. exp. | | No data available | |
| Aspiration hazard | | No data available | |
| Symptoms/injuries after | skin contact | May stain skin | |
| | | | |

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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ECOLOGICAL INFORMATION

12.1 Toxicity

| METHYLENE BLUE (61-73-4) | |
|--------------------------|------------------------------------|
| LC50 fish 1 | 13 mg/L (48 h; Oryzias latipes) |
| EC50 Daphnia 1 | 2.26 mg/L (48 h; Daphnia magna) |
| LC50 fish 2 | 18 mg/L (96 h; Mystus vittatus) |
| EC50 Daphnia 2 | 4.93 mg/L (24 h; Daphnia magna) |
| TLM fish 1 | 10-100 (48 h; Poecilia reticulate) |
| METHANOL (67-56-1) | |
| LD50 fish 1 | 15,400 mg/L (96h;Lepomis macro.) |
| LC50 fish 2 | 29,400 mg/L (96h;Fathead minnow) |
| EC50 | >10,000 mg/L (48h; Water flea) |
| Aquatic Plants | |
| EC50 | 22,000 mg/L (96h;Scene. capri.) |
| Other adverse effects: | |
| BOD; | 600 mg/g – 1120 mg/g |
| COD : | 1420 mg/g |
| PLATINUM (7440-06-4) | No Data Available |

12.2 Persistence and degradability - Not established

12.3 Bio-accumulative 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 - No data available

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DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

General information Reuse or recycle products wherever possible. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor.

Disposal methods Absorb in vermiculite, dry sand or earth and place into containers. Place waste in labelled, sealed containers. Dispose of contents/container in accordance with national regulations. Small amounts of this material may be suitable for sewer or trash disposal.

Contaminated packaging

Dispose of as unused product.

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TRANSPORT INFORMATION

DOT - Not regulated for transport

IATA - Not regulated for transport

Special provisions for transport – Not applicable

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REGULATORY INFORMATION

| 15.1 US Federal | | |
|---|--|--|
| TSCA: | | |
| CAS# 61-73-4 is listed on the TS | SCA Inventory (8b) | |
| SARA 302 Components | No chemicals in this product are subject to the reporting requirements of | |
| | SARA Title III, Section 302. | |
| SARA 313 Components | No chemicals in this product are subject to the reporting requirements of | |
| | SARA Title III, Section 313. | |
| OSHA Highly Hazardous | None of the components are listed. | |
| 15.2 US State | | |
| Massachusetts Right To Know Components – Methanol CAS# 67-56-1 is listed | | |
| Pennsylvania Right To Know Components – Methanol CAS# 67-56-1 is listed | | |
| New Jersey Right To Know Co | mponents - Methylene Blue CAS# 61-73-4; Methanol CAS# 67-56-1 is listed | |
| · · · | ts - WARNING! This product contains a chemical known to the State of California to oductive harm. METHANOL CAS# 67-56-1 Revision date 2012-03-16 | |
| 15.3 International | | |
| Canadian DSL/NDSL - CAS# 61-73-4 is listed on Canada's DSL list | | |
| Canada Ingredient Disclosure List - CAS# 61-73-4 is listed on Canada's Ingredient Disclosure List | | |
| EU regulations - No additional information available | | |

Classification according to Regulation (EC) No. 1272/2008 [CLP] - No additional information available Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD} - No additional information available

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OTHER INFORMATION

Full text of H-Statements referred to under sections 2, 3 and 11.

| Acute Tox 4 (Oral) | Acute toxicity oral, category 4 | |
|--------------------------------------|--|---|
| Spec. target organ tox. – sgl. exp. | Specific target organ toxicity – single exposure | |
| Spec. target organ tox. – rptd. exp. | Specific target organ toxicity – repeated exposure | |
| Eye Irrit. | Eye irritation | |
| H301 | Toxic if Swallowed | |
| H302 | Harmful if swallowed | |
| H331 | Toxic if inhaled | |
| H401 | Toxic to aquatic life | |
| HMIS Rating | | |
| Health Hazard: | 1 | |
| Flammability Hazard | 0 | |
| Physical Hazard | 0 | |
| NFPA Rating | | |
| Health Hazard: | 1 | |
| Flammability Hazard: | 0 | |
| Reactivity Hazard: | 0 | |
| Rev 2.1 | 7/21/2018 | F |
| | | |

Other Information

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Preparation Information

H2 Sciences Inc. Product Safety Department

Revision Level: 2.1

Revision Date: 7/21/2018