1		PRODUCT AND COMPANY IDENTIFICATION	
1.1	Product Identifier	'S	
	Product Brand Nar	me H2Blue	
	Manufacturer	H2 Sciences Inc.	
	Synonyms	Reagent alcohol; Denatured ethanol; SDA40B	
1.2	Relevant Identifie	ed Uses of the Substance or Mixture and Uses Advised Against	
	Identified Uses	Test reagent	
	No specific uses a	dvised against are identified.	
1.3	Details of the Supplier of the Safety Data Sheet		
	Manufacturer	H2 Sciences Inc.	
		1445 American Pacific Dr. Suite 110-239	
		Henderson, NV 89074	
	Phone	(719) 499-2973	
	Email	contact@h2sciencesinc.com	
	Website	www.h2sciencesinc.com	
1.4	Emergency Telep	hone Number	
	Emergency phone	# (719) 499-2973	

2

HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)Flammable liquids(Cat 3), H225Eye Irritation(Cat 2A), H319For the full text of the H-Statements mentioned in this section, see Section 16.

2.2 GHS Label Statements, Including Precautionary Statements

Pictograms



Signal Word

Danger

Hazard Statements

H225	Flammable liquid and vapor
H319	Causes serious eye irritation

Precautionary Statements

P102 Keep out of reach of children.

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking
P211	Do not spray on an open flame or other ignition source.
P220 + 233	Keep/store away from combustible materials. Keep tightly closed.
P280	Wear protective goggles/eye protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P305 + P351 + P338	IF IN EYES: Remove contact lenses, if present and easy; continue rinsing.
P337 + P313	If eye irritation persists, get medical advice/attention
P370 + P378	In case of fire, use sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool
P501	Dispose of contents/container at an approved waste disposal plant.

2.3 Hazards Not Otherwise Classified or Not Covered by GHS - none

3

COMPOSITION INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous Components

Component	-	Classification	Concentration (by weight)
ETHANOL			
CAS # EC # INDEX #	64-17-5 200-578-6 603-002-00-5	Flammable liquid 2, H225 Eye irritant 2A, H319	>90%, <100%
METHYLENE	BLUE		
CAS # EC # INDEX #	61-73-4 200-515-2 603-002-00-5	Acute Tox 4, H302	<1%
WATER			
CAS # EC #	7732-18-5 231-791-2	Not Classified	<5%

All percentages by weight.

Exact percentages have been withheld to protect the proprietary nature of product.

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

4	FIRST AID MEASURES
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. 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 extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas

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.



6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors 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 containment and cleaning up

Contain spillage, and then collect with an electrically protected 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.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities.

Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

ETHANOL (64-17-5)		
ACGIH	NOT APPLICABLE	
OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
METHYLENE BLUE (61-73-4)	
ACGIH	NOT APPLICABLE	
OSHA	NOT APPLICABLE	
WATER (7732-18-5)		
ACGIH	NOT APPLICABLE	
OSHA	NOT APPLICABLE	

8.2 Exposure controls

Engineering controls

9

Maintain air concentrations in work space with standards outlined in sections 2 and 3.

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, handle with gloves.

PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Color, Blue; Liquid
Moderate alcohol odor
No data available
15 °C (60 °F) - closed cup
No data available

r) Viscosity
s) Explosive properties
t) Oxidizing properties
u) Specific gravity (ethanol)

No data available No data available No data available 0.789 at 20 °C

9.2 Other safety information

No data available

STABILITY AND REACTIVITY

10.1 Reactivity

10

No data available

10.2 Chemical stability

Stable under recommended usage and storage conditions.

10.3 Possibility of hazardous reactions

Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Heat, flames and sparks.

10.6 Hazardous decomposition products

Other decomposition products - No data available. In the event of fire: see section 5

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

RTECS:	CAS# 64-17-5	KQ6300000
	CAS# 61-73-4	SO5600000
Carcinogenicity:	CAS# 64-17-5	Not listed as a carcinogen by ACGIH, IARC, NIOSH,
		NTP, OSHA, or CA Prop 65
	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:		No data available
Dermal:		No data available
Skin corrosion/irritation		No data available
Serious eye damage/irr	itation	No data available
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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., Central nervous system depression, Gastrointestinal disturbance, Nausea, Dizziness, Headache, narcosis, May cause convulsions.

Stomach - Irregularities Kidney - Irregularities Stomach - Irregularities Based on Human Evidence Based on Human Evidence Based on Human Evidence (Ethanol)

12

ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bio-accumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13	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. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

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.

Contaminated packaging

Dispose of as unused product.

14	TRANSPORT INFORMATION
DOT (US)	
UN number:	1170
Class:	3
Packing group:	II
Proper shipping name:	Ethanol solution
IMDG	
UN number:	1170
Class:	3
Packing group:	II
EMS-No:	F-E, S-D
Proper shipping name:	Ethanol Solution

ΙΑΤΑ

UN number:	1170
Class:	3
Packing group:	II
Proper shipping name:	Ethanol solution

1	15	5

REGULATORY INFORMATION

15.1 US Federal TSCA: CAS# 64-17-5 is listed on the TSCA Inventory CAS# 67-56-1 is listed on the TSCA Inventory CAS# 61-73-4 is listed on the TSCA Inventory 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. SARA 311/312 Hazards Fire Hazard, Acute Health Hazard, Chronic Health Hazard **OSHA Highly Hazardous** None of the components are listed. 15.2 US State Massachusetts Right To Know Components Ethanol CAS-No. 64-17-5 Revision Date 2007-03-01 Pennsylvania Right To Know Components Ethanol CAS-No. 64-17-5 Revision Date 2007-03-01 New Jersey Right To Know Components Ethanol CAS-No. 64-17-5 Revision Date 2007-03-01 Methylene Blue CAS-No. 61-73-4 California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. 15.3 International Canadian DSL/NDSL CAS# 64-17-5 is listed on Canada's DSL list. CAS# 61-73-4 is listed on Canada's DSL list **Canada Ingredient Disclosure List** CAS# 64-17-5 is listed on Canada's 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

16

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
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapors
H302	Harmful if swallowed
H319	Causes serious eye irritation.
HMIS Rating	
Health hazard:	2
Flammability:	3
Physical Hazard	0
NFPA Rating	
Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

Copyright 2016 H2 Sciences Inc. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not claim to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. H2 Sciences Inc. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.H2SciencesInc.com for additional terms and conditions of sale.

Preparation Information

H2 Sciences Inc. Product Safety Department

Version: 2.2

Revision Date: 2/2/2017