# Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: November 28, 2018

1 Identification		
· Product identif	fier	
· Trade name: <u>Har</u> · Product code: M	rdness Indicator Buffer Solution ITK-636-60-C	
Recommended u	<b>use and restriction on use use:</b> Laboratory chemicals <b>use:</b> No relevant information available.	
Details of the s Manufacturer/Su AquaPhoenix Scie 860 Gitts Run Roa Hanover, PA 1733 Phone: (717)632- Toll-Free: (866)63 info@aquaphoeni Distributor: Dubois Chemicals 3630 East Kempe Cincinnati, OH 45 (800) 438-2647	entific, Inc. ad 31 -1291 32-1291 ixsci.com s Inc. er Rd	
Emergency telep ChemTel Inc. (800)255-3924 (N +1 (813)248-0585	North America)	
2 Hazard(s) ider	ntification	
	ntification of the substance or mixture	
Classification of Flam. Liq. 2 H225	of the substance or mixture 5 Highly flammable liquid and vapor.	
Classification of Flam. Liq. 2 H225	of the substance or mixture 5 Highly flammable liquid and vapor. s	
Classification of Flam. Liq. 2 H225 Label elements GHS label eleme	of the substance or mixture 5 Highly flammable liquid and vapor. s ents assified and labeled according to the Globally Harmonized System (GHS).	
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P303+P361+P3	53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water/shower.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

• Other hazards There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

### · Chemical characterization: Mixtures

· Componer	nts:	
102-71-6	Triethanolamine	84.79%
64-17-5	Ethanol Flam. Liq. 2, H225 Eye Irrit. 2A, H319	15.17%
	sodium 3-hydroxy-4-[(1-hydroxy-2-naphthyl)azo]-7-nitronaphthalene-1-sulphonate Eye Irrit. 2A, H319	0.04%

### · Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

### 4 First-aid measures

### <sup>•</sup> Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

### · After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

### • After skin contact:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation is experienced, consult a doctor.

### • After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

### · After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Breathing difficulty

Coughing

Disorientation

· Danger: No relevant information available.

### · Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

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### 5 Fire-fighting measures

### • Extinguishing media

• Suitable extinguishing agents: Water fog / haze CO2, sand, extinguishing powder. Do not use water. Gaseous extinguishing agents Fire-extinguishing powder · For safety reasons unsuitable extinguishing agents: Water stream. · Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced. Highly flammable liquid and vapor. Advice for firefighters

### · Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

### · Additional information:

Eliminate all ignition sources if safe to do so. Use large quantities of foam as it is partially destroyed by the product. Cool endangered receptacles with water in flooding quantities.

### 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

### Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

### **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

### · Handling

### · Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Information about protection against explosions and fires:

Highly flammable liquid and vapor.

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Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Flammable gas-air mixtures may be formed in empty containers/receptacles.

<sup>•</sup> Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

• Further information about storage conditions: Keep containers tightly sealed.

• Specific end use(s) No relevant information available.

### 8 Exposure controls/personal protection

### <sup>·</sup> Control parameters

· Components with limit values that require monitoring at the workplace:

### 102-71-6 Triethanolamine

102-71-6 Trieth	anolamine
TLV (USA)	Long-term value: 5 mg/m <sup>3</sup>
EL (Canada)	Long-term value: 5 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 3.1 mg/m <sup>3</sup> , 0.5 ppm
LMPE (Mexico)	Long-term value: 5 mg/m <sup>3</sup>
64-17-5 Ethano	Ì
PEL (USA)	Long-term value: 1900 mg/m³, 1000 ppm
REL (USA)	Long-term value: 1900 mg/m³, 1000 ppm
TLV (USA)	Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm
EL (Canada)	Short-term value: 1000 ppm
EV (Canada)	Long-term value: 1,900 mg/m³, 1,000 ppm
LMPE (Mexico)	Long-term value: 1000 ppm
	A3

### • Exposure controls

### · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid breathing mist, vapors, or spray.

• Engineering controls: Provide adequate ventilation.

- Breathing equipment: Not required under normal conditions of use.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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· Material of gloves	
Laminated film gloves.	
Nitrile rubber, NBR	
Neoprene gloves Butyl rubber, BR	
· Not suitable are gloves made of th	e following materials:
PVA gloves	
PVC gloves	
· Eye protection:	
Safety glasses	
Follow relevant national guidelines co	oncerning the use of protective eyewear.
· Body protection: Protective work cl	
Limitation and supervision of e	exposure into the environment
No relevant information available.	
Physical and chemical properties of the prope	erties
<sup>·</sup> Information on basic physical a	and chemical properties
· Appearance:	
Form:	Liquid
Color:	Dark blue
· Odor:	Alcohol-like
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	286 °C (546.8 °F)
· Flash point:	10 °C (50 °F)
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	305 °C (581 °F)
· Decomposition temperature:	Not determined.
2000 mpoortion tomporataro	

Product is not explosive. However, formation of explosive air/ Danger of explosion: vapor mixtures are possible. • Explosion limits Lower: Not determined. Upper: Not determined. · Oxidizing properties: Not determined. · Vapor pressure at 20 °C (68 °F): 0 hPa (0 mm Hg) · Density: **Relative density:** Not determined. Vapor density: Not determined. Evaporation rate: Not determined.

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	(Cont'd. of page
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Partly soluble.
· Partition coefficient (n-octanol/v	vater): Not determined.
<ul> <li>Viscosity</li> <li>Dynamic:</li> <li>Kinematic:</li> <li>Other information</li> </ul>	Not determined. Not determined. No relevant information available.
) Stability and reactivity	
<ul> <li>Thermal decomposition / condit No decomposition if used and stor</li> <li>Possibility of hazardous read Toxic fumes may be released if he Reacts with oxidizing agents. Used empty containers may containant</li> </ul>	ed according to specifications. ctions eated above the decomposition point. in product gases which form explosive mixtures with air. if heated above flash point and/or when sprayed or atomized. ot smoke. evant information available. roducts
Toxicological information	
<ul> <li>Information on toxicological</li> <li>Acute toxicity: Based on available</li> <li>LD/LC50 values that are relevan</li> <li>Primary irritant effect:</li> <li>On the skin: Based on available date</li> <li>On the eye: Based on available date</li> </ul>	e data, the classification criteria are not met.
· IARC (International Agency for F	·
102-71-6 Triethanolamine	
64-17-5 Ethanol	
NTP (National Toxicology Progr	am):
None of the ingredients are listed.	
· OSHA-Ca (Occupational Safety a	·
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None of the ingredients are listed.

Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact. Skin contact.

Skin contact

• Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.

• Repeated dose toxicity: No relevant information available.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

• Reproductive toxicity: Based on available data, the classification criteria are not met.

• STOT-single exposure: Based on available data, the classification criteria are not met.

• STOT-repeated exposure: Based on available data, the classification criteria are not met.

• Aspiration hazard: Based on available data, the classification criteria are not met.

### 12 Ecological information

<sup>·</sup> Toxicity

· Aquatic toxicity No relevant information available.

· Persistence and degradability No relevant information available.

· Bioaccumulative potential: No relevant information available.

· Mobility in soil: No relevant information available.

<sup>•</sup> Additional ecological information

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

• Other adverse effects No relevant information available.

### 13 Disposal considerations

### <sup>·</sup> Waste treatment methods

### · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

### <sup>·</sup> Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

# 14 Transport information · UN-Number · DOT, ADR/RID/ADN, IMDG, IATA · UN proper shipping name (Cont'd. on page 8)

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	(Cont'd. of pa
DOT ADR/RID/ADN, IMDG IATA	Ethanol solutions ETHANOL SOLUTION (ETHYL ALCOH SOLUTION) ETHANOL SOLUTION
Transport hazard class(es)	
DOT	
NUMBER OF	
Class	3
Label	3
ADR/RID/ADN	
Class	3 (F1)
Label	3
Class	3
Label	3
Packing group DOT, ADR/RID/ADN, IMDG, IATA	11
Environmental hazards	Not applicable.
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler): EMS Number:	33 F-E,S-D
Transport in bulk according to Annex	,
MARPOL73/78 and the IBC Code	Not applicable.

# 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture · United States (USA) · SARA • Section 302 (extremely hazardous substances):

None of the ingredients are listed.

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	(Cont'd. of pa
Section 35	55 (extremely hazardous substances):
None of the	e ingredients are listed.
Section 31	3 (Specific toxic chemical listings):
None of the	e ingredients are listed.
TSCA (To	kic Substances Control Act)
	Triethanolamine
64-17-5	
1787-61-7	sodium 3-hydroxy-4-[(1-hydroxy-2-naphthyl)azo]-7-nitronaphthalene-1-sulphonate
	thanol
	s known to cause developmental toxicity for females:
Chemicals	
Chemicals None of the	s known to cause developmental toxicity for females:
Chemicals None of the Chemicals None of the	<ul> <li>known to cause developmental toxicity for females:</li> <li>e ingredients are listed.</li> <li>known to cause developmental toxicity for males:</li> <li>e ingredients are listed.</li> </ul>
Chemicals None of the Chemicals None of the Chemicals Ethanol - li	<ul> <li>known to cause developmental toxicity for females:</li> <li>e ingredients are listed.</li> <li>known to cause developmental toxicity for males:</li> <li>e ingredients are listed.</li> <li>s known to cause developmental toxicity:</li> <li>s known to cause developmental toxicity:</li> <li>sting refers specifically to alcoholic beverage consumption and is not applicable for product</li> </ul>
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Chemicals None of the Chemicals Ethanol - li 64-17-5 E EPA (Envi None of the IARC (Inter	<ul> <li>known to cause developmental toxicity for females:</li> <li>e ingredients are listed.</li> <li>known to cause developmental toxicity for males:</li> <li>e ingredients are listed.</li> <li>known to cause developmental toxicity:</li> <li>sting refers specifically to alcoholic beverage consumption and is not applicable for product thanol</li> <li>ronmental Protection Agency):</li> <li>e ingredients are listed.</li> </ul>

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/

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overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com