According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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# **Bromocresol Green Methyl Red**

#### SECTION 1: Identification

Product identifier

Product name: Bromocresol Green Methyl Red

Product code: KEMAI6925-A

Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable. Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

#### Manufacturer or supplier details

Manufacturer:

Supplier:

AquaPhoenix Scientific AquaPhoenix Scientific Inc.

860 Gitts Run Road

860 Gitts Run Road

Hanover PA 17331 Hanover PA 17331

(717) 632-1291

(717) 632-1291

#### **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

# SECTION 2: Hazard(s) identification

GH5 classification: Not a hazardous substance or mixture

Label elements

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Hazards not otherwise classified: None

#### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 62625-32-5	Bromocresol Green, Sodium Salt	<0.1
CA5 number: 7732-18-5	Water	>99.8
CAS number: 845-10-3	Methyl Red, Sodium Salt	<0.1

Additional Information: None

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# **Bromocresol Green Methyl Red**

#### **SECTION 4: First aid measures**

#### **Description of first aid measures**

#### **General notes:**

Not determined or not applicable.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

#### After skin contact:

Wash affected area with soap and water

Seek medical attention if symptoms develop or persist

#### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lens(es) if able to do so during rinsing

Seek medical attention if irritation persists or if concerned

#### After swallowing:

Rinse mouth and then drink plenty of water

Do not induce vomiting

Get medical advice/attention if you feel unwell

#### Most important symptoms and effects, both acute and delayed

#### Acute symptoms and effects:

Not determined or not applicable.

#### Delayed symptoms and effects:

Not determined or not applicable.

#### Immediate medical attention and special treatment

#### Specific treatment:

Not determined or not applicable.

#### Notes for the doctor:

Not determined or not applicable.

#### **SECTION 5: Firefighting measures**

#### Extinguishing media

#### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

## Unsuitable extinguishing media:

Not determined or not applicable.

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

#### Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

Refer to Section 8

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

#### Special precautions:

Heating causes a rise in pressure, risk of bursting and combustion

Shut off sources of ignition

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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#### **Bromocresol Green Methyl Red**

Carbon monoxide and carbon dioxide may form upon combustion

#### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

#### **Environmental precautions:**

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

#### Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

#### Reference to other sections:

Not determined or not applicable.

#### SECTION 7: Handling and storage

#### Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Use only with adequate ventilation.

#### Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

Store away from foodstuffs.

#### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

#### Biological limit values:

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Not determined or not applicable.

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

#### Personal protection equipment

#### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

#### Skin and body protection:

Select glove material impermeable and resistant to the substance.

#### Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

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#### **Bromocresol Green Methyl Red**

#### General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

Perform routine housekeeping.

Wash contaminated clothing before reusing.

# SECTION 9: Physical and chemical properties

# Information on basic physical and chemical properties

	· · · · · · · · · · · · · · · · · · ·
Appearance	Dark green liquid
Odor	Not available
Odor threshold	Not available
pH	Approximately 8.5
Melting point/freezing point	Not available
Initial boiling point/range	Approx. 100°C
Flash point (closed cup)	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Density	Not available
Relative density	Not available
Solubilities	Infinite solubility in water.
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not available
Dynamic viscosity	Not available
Kinematic viscosity	Not available
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

# Other information

# SECTION 10: Stability and reactivity

#### Reactivity:

Does not react under normal conditions of use and storage.

## Chemical stability:

Stable under normal conditions of use and storage.

#### Possibility of hazardous reactions:

None under normal conditions of use and storage.

#### Conditions to avoid:

None known.

# Incompatible materials:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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#### **Bromocresol Green Methyl Red**

None known.

#### Hazardous decomposition products:

None known.

## **SECTION 11: Toxicological information**

#### **Acute toxicity**

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

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

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

Product data: No data available.

Substance data: No data available.

Serious eye damage/irritation

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

Product data: No data available.

Substance data: No data available.

Respiratory or skin sensitization

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

Product data: No data available.

Substance data: No data available.

Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

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

Product data: No data available.

Substance data: No data available.

Reproductive toxicity

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

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

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

Product data: No data available. Substance data: No data available.

Specific target organ toxicity (repeated exposure)

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

Product data: No data available.

Substance data: No data available.

**Aspiration toxicity** 

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

Product data: No data available.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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#### **Bromocresoi Green Methyi Red**

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

#### SECTION 12: Ecological information

#### Acute (short-term) toxicity

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

Product data: No data available.
Substance data: No data available.

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

# Persistence and degradability

Product data: No data available. Substance data: No data available.

**Bioaccumulative potential** 

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

## **SECTION 13: Disposal considerations**

#### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

#### **SECTION 14: Transport information**

#### United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	
Special precautions for user	None

## International Maritime Dangerous Goods (IMDG)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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<b>Bromocreso</b>	Green	Methyl	Red
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Environmental hazards	
Special precautions for user	None

#### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code			
Bulk Name None			
Ship type	None		
Pollution category	None		

# SECTION 15: Regulatory information

# **United States regulations**

#### Inventory listing (TSCA):

845-10-3	Methyl Red, Sodium Salt	Listed
62625-32-5	Bromocresol Green, Sodium Salt	Listed
7732-18-5	Water	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

# SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals: Not determined.

**CERCLA:** Not determined. **RCRA:** Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

# Massachusetts Right to Know:

62625-32-5	Bromocresol Green, Sodium Salt	Not Listed
7732-18-5	Water	Not Listed
845-10-3	Methyl Red, Sodium Salt	Not Listed

#### New Jersey Right to Know:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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B	rom	ocresol	Green	Methyl	Red
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62625-32-5	Bromocresol Green, Sodium Salt	Not Listed
7732-18-5	Water	Not Listed
845-10-3	Methyl Red, Sodium Salt	Not Listed

#### **New York Right to Know:**

62625-32-5	· ·	Not Listed
7732-18-5		Not Listed
845-10-3		Not Listed

#### Pennsylvania Right to Know:

62625-32-5	Bromocresol Green, Sodium Salt	Not Listed
7732-18-5	Water	Not Listed
845-10-3	Methyl Red, Sodium Salt	Not Listed

California Proposition 65: Not determined.

# SECTION 16: Other information

#### Abbreviations and Acronyms: None

#### Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

Initial preparation date: 08.24.2016

**Revision date: 12.08.2017** 

**End of Safety Data Sheet** 

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# **Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 15, 2019 Revision: March 15, 2019

## 1 Identification

Product identifier

· Trade name: Ethanol, 95%, Denatured, ACS Grade

· Product code: KEMET1000-C

· Recommended use and restriction on use

· Recommended use: Laboratory chemicals

· Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier:

AquaPhoenix Scientific, Inc.

860 Gitts Run Road

Hanover, PA 17331

Phone: (717)632-1291

Toll-Free: (866)632-1291

info@aquaphoenixsci.com

Distributor:

AquaPhoenix Scientific, Inc.

860 Gitts Run Road Hanover, PA 17331

(717) 632-1291

· Emergency telephone number:

ChemTel Inc.

(800)255-3924 (North America)

+1 (813)248-0585 (International)

# 2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:





**GHS02 GHS07** 

· Signal word: Danger · Hazard statements:

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

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# **Safety Data Sheet**

## acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 15, 2019 Revision: March 15, 2019

Trade name: Ethanol, 95%, Denatured, ACS Grade

(Cont'd. of page 1)

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash thoroughly after handling.

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/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use for extinction: Alcohol resistant foam 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

· Components:			
64-17-5	Ethanol	<ul><li>Flam. Liq. 2, H225</li><li>Eye Irrit. 2A, H319</li></ul>	95%
7732-18-5	Water		5%

#### 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

- 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:

Causes eye irritation.

Breathing difficulty

Coughing

Causes mild skin irritation.

(Cont'd. on page 3)

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# **Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 15, 2019 Revision: March 15, 2019

Trade name: Ethanol, 95%, Denatured, ACS Grade

(Cont'd. of page 2)

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Dizziness

Acidosis

Disorientation

Unconsciousness

· Danger:

May cause neurotoxic effects.

Danger of impaired breathing.

Indication of any immediate medical attention and special treatment needed:

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

# 5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:

Alcohol resistant foam

Water fog / haze

Carbon dioxide

Gaseous extinguishing agents

Fire-extinguishing powder

- · For safety reasons unsuitable extinguishing agents: Water stream.
- · Special hazards arising from the substance or mixture

Highly flammable liquid and vapor.

Formation of toxic gases is possible during heating or in case of fire.

- 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

Wear protective equipment. Keep unprotected persons away.

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

Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

#### Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into 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.

(Cont'd. on page 4)

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# **Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 15, 2019 Revision: March 15, 2019

Trade name: Ethanol, 95%, Denatured, ACS Grade

(Cont'd. of page 3)

#### · 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.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

## · Conditions for safe storage, including any incompatibilities

## Requirements to be met by storerooms and receptacles:

Store in a cool location.

Due to photo-sensitivity, store product in brown-glass or stainless steel receptacles.

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

#### · Control parameters

Components with limit values that require monitoring at the workplace:
64-17-5 Ethanol

# PEL (USA) REL (USA) Long-term value: 1900 mg/m³, 1000 ppm Long-term value: 1900 mg/m³, 1000 ppm TLV (USA) Short-term value: 1880 mg/m³, 1000 ppm EL (Canada) Short-term value: 1000 ppm Long-term value: 1,900 mg/m³, 1,000 ppm

LMPE (Mexico) Long-term value: 1000 ppm

АЗ

## · 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.

(Cont'd. on page 5)

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# **Safety Data Sheet**

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 15, 2019 Revision: March 15, 2019

Trade name: Ethanol, 95%, Denatured, ACS Grade

(Cont'd. of page 4)

Do not inhale dust / smoke / mist.

- Engineering controls: Provide adequate ventilation.
- · Protection of hands:



Protective gloves

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

· Material of gloves

Laminated film gloves.

Nitrile rubber, NBR

Neoprene gloves

Butyl rubber, BR

Not suitable are gloves made of the following materials:

PVC gloves

**PVA** gloves

· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Solvent resistant protective clothing
- · Limitation and supervision of exposure into the environment

No relevant information available.

#### 9 Physical and chemical properties · Information on basic physical and chemical properties · Appearance: Form: Liquid Clear, colorless Color: · Odor: Like alcohol · Odor threshold: Not determined. · pH-value: Not determined. · Melting point/Melting range: Not determined. Boiling point/Boiling range: 78 °C (172.4 °F) · Flash point: 13 °C (55.4 °F) · Flammability (solid, gaseous): Not applicable. · Auto-ignition temperature: 425 °C (797 °F) · Decomposition temperature: Not determined. Product is not explosive. However, formation of explosive air/ Danger of explosion: vapor mixtures are possible. · Explosion limits Lower: 3.5 Vol % (Cont'd. on page 6)

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# **Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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Trade name: Ethanol, 95%, Denatured, ACS Grade

		(Cont'd. of page 5)
Upper:	15 Vol %	
Oxidizing properties:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)	
· Density at 20 °C (68 °F):	0.79 g/cm³ (6.59 lbs/gal)	
Relative density:	Not determined.	
· Vapor density:	Not determined.	
· Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Other information	No relevant information available.	

# 10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

# · Possibility of hazardous reactions

Reacts violently with oxidizing agents.

Highly flammable liquid and vapor.

Toxic fumes may be released if heated above the decomposition point.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

#### · Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

- · Incompatible materials No relevant information available.
- Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

# 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:			
64-17-5 E	thanol			
Oral	LD50	7,060 mg/kg (rat)		
Inhalative	LC50/4h	20,000 mg/l (rat)		

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# **Safety Data Sheet**

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Trade name: Ethanol, 95%, Denatured, ACS Grade

(Cont'd. of page 6)

#### · Primary irritant effect:

· On the skin:

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

Causes mild skin irritation.

- · On the eye: Irritating effect.
- · Sensitization: Based on available data, the classification criteria are not met.

#### · IARC (International Agency for Research on Cancer):

64-17-5 Ethanol

11

#### · NTP (National Toxicology Program):

None of the ingredients are listed.

# · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

# · Probable route(s) of exposure:

Ingestion.

Inhalation.

Eve contact.

Skin contact.

#### · Acute effects (acute toxicity, irritation and corrosivity):

Irritating to eyes.

Causes mild skin irritation.

- · 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

- · 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.
- · Additional ecological information
- · General notes:

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

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB**: Not applicable.
- · Other adverse effects No relevant information available.

#### 13 Disposal considerations

(Cont'd. on page 8)

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# **Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 15, 2019 Revision: March 15, 2019

Trade name: Ethanol, 95%, Denatured, ACS Grade

(Cont'd. of page 7)

- · 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.

- · Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information	
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN1170
· UN proper shipping name · DOT · ADR/RID/ADN, IMDG · IATA	Ethanol ETHANOL (ETHYL ALCOHOL) ETHANOL
· Transport hazard class(es)	
· DOT	
RAMINE LOS	
· Class	3
· Label	3
· ADR/RID/ADN	
· Class · Label	3 (F1)
· Labei · IMDG, IATA	3
in Da, IATA	
· Class	3
· Label	3
· Packing group · DOT, ADR/RID/ADN, IMDG, IATA	II
· Environmental hazards	Not applicable.
	(Cont'd. on page

Page: 9/10

# **Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 15, 2019 Revision: March 15, 2019

Trade name: Ethanol, 95%, Denatured, ACS Grade

(Cont'd. of page 8)

Special precautions for user
 Warning: Flammable liquids

Danger code (Kemler): 33
EMS Number: F-E,S-D

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information:

· DOT

• Quantity limitations On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

# 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.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

All ingredients are listed.

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

All ingredients are listed.

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

64-17-5 Ethanol

· Canadian Domestic Substances List (DSL) (Substances not listed.):

(Cont'd. on page 10)

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Page: 10/10

# Safety Data Sheet

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 15, 2019 Revision: March 15, 2019

Trade name: Ethanol, 95%, Denatured, ACS Grade

(Cont'd. of page 9)

All ingredients are listed.

#### 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

PBT: Persistant, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration

Flam. Lig. 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/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

Page: 1/10

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

#### 1 Identification

Product identifier

· Trade name: Ethyl Acetate · Product code: KEMEA2000-C

· CAS Number:

141-78-6

· Recommended use and restriction on use

· Recommended use: Laboratory chemicals

· Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com

**Distributor:** 

AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 (717) 632-1291

· Emergency telephone number:

ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)

# 2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Lig. 2 H225 Highly flammable liquid and vapor.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Additional information: Repeated exposure may cause skin dryness or cracking.
- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:





GHS02 GHS07

- · Signal word: Danger
- · Hazard statements:

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

(Cont'd. on page 2)

Page: 2/10

# **Safety Data Sheet**

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 1)

•	Precautionar	y statements:
---	--------------	---------------

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing mist, vapors, or spray. Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P312 Call a poison center/doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use for extinction: Alcohol resistant foam or water spray.

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Additional information: Repeated exposure may cause skin dryness or cracking.

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

# 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description 141-78-6 Ethyl acetate

## 4 First-aid measures

- 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.
- · After skin contact:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation continues, 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:

Dizziness

(Cont'd. on page 3)

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 2)

Coughing

Causes eye irritation.

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Disorientation

· Danger:

May cause drowsiness or dizziness.

Causes mild skin irritation.

Repeated exposure may cause skin dryness or cracking.

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

If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

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

# 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

Alcohol resistant foam

Carbon dioxide

Gaseous extinguishing agents

Fire-extinguishing powder

Water fog / haze

- · For safety reasons unsuitable extinguishing agents: Water stream.
- · Special hazards arising from the substance or mixture

Highly flammable liquid and vapor.

Formation of toxic gases is possible during heating or in case of fire.

- 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.

Protect from heat.

Remove 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 to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

(Cont'd. on page 4)

Page: 4/10

# **Safety Data Sheet**

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 3)

#### · 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.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

- · 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

· Control parameters

· Components with limit values that require monitoring at the workplace:		
141-78-6 Ethyl	141-78-6 Ethyl acetate	
PEL (USA)	Long-term value: 1400 mg/m³, 400 ppm	
REL (USA)	Long-term value: 1400 mg/m <sup>3</sup> , 400 ppm	
TLV (USA)	Long-term value: 1440 mg/m³, 400 ppm	
EL (Canada)	Long-term value: 150 ppm	
EV (Canada)	Long-term value: 1,440 mg/m³, 400 ppm	
LMPE (Mexico)	Long-term value: 400 ppm	

- · Exposure controls
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

(Cont'd. on page 5)

Page: 5/10

# **Safety Data Sheet**

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 4)

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- · Engineering controls: Provide adequate ventilation.
- Breathing equipment: Suitable respiratory protective device recommended.
- · Protection of hands:



Protective gloves

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

· Material of gloves

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Natural rubber, NR

Nitrile rubber, NBR

Sensibilization by the components in the glove materials is possible.

· Not suitable are gloves made of the following materials:

**PVC** gloves

**PVA** gloves

· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment

No relevant information available.

# 9 Physical and chemical properties

Appearance:		
Form:	Liquid	
Color:	Colorless	
Odor:	Fruit-like	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	-83.57 °C (-118.4 °F)	
Boiling point/Boiling range:	77-78 ℃ (170.6-172.4 ℉)	
Flash point:	-1 ℃ (30.2 ℉)	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	460 °C (860 °F)	
Decomposition temperature:	Not determined.	

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# **Safety Data Sheet**

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

**Trade name: Ethyl Acetate** 

	(Cont'd. of page
Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
Explosion limits	
Lower:	2.1 Vol %
Upper:	11.5 Vol %
Oxidizing properties:	Not determined.
Vapor pressure at 20 ℃ (68 ℉):	97 hPa (72.8 mm Hg)
Density at 20 °C (68 °F):	0.9 g/cm³ (7.51 lbs/gal)
Relative density:	Not determined.
Vapor density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with	
Water at 20 ℃ (68 ℉):	79 g/l
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity	
Dynamic at 20 °C (68 °F):	0.44 mPas
Kinematic:	Not determined.
Other information	No relevant information available.

# 10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

# · Possibility of hazardous reactions

Reacts violently with oxidizing agents.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

Highly flammable liquid and vapor.

Reacts with strong acids.

Toxic fumes may be released if heated above the decomposition point.

#### · Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

- Incompatible materials No relevant information available.
- · Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

# 11 Toxicological information

· Information on toxicological effects

(Cont'd. on page 7)

Page: 7/10

# **Safety Data Sheet**

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 6)

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

· LD/LC50 values that are relevant for classification:

#### 141-78-6 Ethyl acetate

Oral LD50 5620 mg/kg (rabbit)
Inhalative LC50/4h 1600 mg/l (rat)

- · Primary irritant effect:
- · On the skin: Based on available data, the classification criteria are not met.
- · On the eye: Causes serious eye irritation.
- · Sensitization: Based on available data, the classification criteria are not met.

# · IARC (International Agency for Research on Cancer):

Substance is not listed.

#### · NTP (National Toxicology Program):

Substance is not listed.

# · OSHA-Ca (Occupational Safety & Health Administration):

Substance is not listed.

#### · Probable route(s) of exposure:

Ingestion.

Inhalation.

Eve contact.

Skin contact.

#### · Acute effects (acute toxicity, irritation and corrosivity):

Causes serious eye irritation.

Causes mild skin irritation.

Vapors have narcotic effect.

- · Repeated dose toxicity: Repeated exposure may cause skin dryness or cracking.
- · 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: May cause drowsiness or dizziness.
- · 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

- · 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.
- Additional ecological information
- · General notes:

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

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

(Cont'd. on page 8)

Page: 8/10

# **Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 7)

· Other adverse effects No relevant information available.

# 13 Disposal considerations

- · 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.

- Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.

1 Transport information	
UN1173	
ETHYL ACETATE 1173 ETHYLACETAT	
3	
3	
3 (F1)	
3	
3	
3	
	ETHYL ACETATE 1173 ETHYLACETAT  3 3 3 3 3 3 3 3

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# **Safety Data Sheet**

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

**Trade name: Ethyl Acetate** 

		(Cont'd. of page 8)
· DOT, ADR/RID/ADN, IMDG, IATA	II	
· Environmental hazards	Not applicable.	
<ul> <li>Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> </ul>	Warning: Flammable liquids 33 3-07	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.		
· Transport/Additional information:		
· DOT · Hazardous substance:	5000 lbs, 2270 kg	

# 15 Regulatory information

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

Substance is not listed.

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act)

Substance is listed.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause developmental toxicity for females:

Substance is not listed.

· Chemicals known to cause developmental toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· EPA (Environmental Protection Agency):

Substance is not listed.

· IARC (International Agency for Research on Cancer):

Substance is not listed.

· Canadian Domestic Substances List (DSL) (Substances not listed.):

(Cont'd. on page 10)

Page: 10/10

# Safety Data Sheet

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 9)

Substance is listed.

## 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

PBT: Persistant, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration

Flam. Lig. 2: Flammable liquids - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

#### Sources

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

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

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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

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Page 1 of 8

Initial preparation date: 05.23.2017

Xylene Cyanol,FF, 0.01%

#### **SECTION 1: Identification**

#### **Product identifier**

Product name: Xylene Cyanol,FF, 0.01%

Product code: KEMXO4005-A

#### Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable. Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

#### Manufacturer or supplier details

Manufacturer:

United States

**United States** AquaPhoenix Scientific AquaPhoenix Scientific Inc.

860 Gitts Run Road

860 Gitts Run Road

Hanover

Hanover

PA 17331 (717) 632-1291

PA 17331 (717) 632-1291

#### **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

# SECTION 2: Hazard(s) identification

GHS classification: Not a hazardous substance or mixture

Label elements

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Hazards not otherwise classified: None

#### **SECTION 3: Composition/information on ingredients**

Identification	Name	Weight %
CAS number: 7732-18-5	Deionized Water, Type II	99.99
CAS number: 2650-17-1	Xylene Cyanol FF	0.01

Additional Information: None

#### **SECTION 4: First aid measures**

**Description of first aid measures** 

General notes:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.23.2017 Page 2 of 8

# Xylene Cyanol, FF, 0.01%

Not determined or not applicable.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

#### After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

#### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lenses, if present and easy to do

Continue rinsing

Get medical advice/attention

#### After swallowing:

Rinse mouth and then drink plenty of water

Do not induce vomiting

Get medical advice/attention if you feel unwell

# Most important symptoms and effects, both acute and delayed

#### Acute symptoms and effects:

Not determined or not applicable.

#### **Delayed symptoms and effects:**

Not determined or not applicable.

# immediate medical attention and special treatment

#### Specific treatment:

Not determined or not applicable.

#### Notes for the doctor:

Not determined or not applicable.

# **SECTION 5: Firefighting measures**

#### **Extinguishing media**

#### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

#### Unsuitable extinguishing media:

Not determined or not applicable.

## Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

#### Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

Refer to Section 8

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

#### **Special precautions:**

Heating causes a rise in pressure, risk of bursting and combustion

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

#### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.23.2017

# Xylene Cyanol, FF, 0.01%

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

#### **Environmental precautions:**

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

#### Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

#### Reference to other sections:

Not determined or not applicable.

## **SECTION 7: Handling and storage**

#### Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Use only with adequate ventilation.

#### Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

Store away from foodstuffs.

#### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

#### **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Not determined or not applicable.

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

#### Personal protection equipment

#### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

#### Skin and body protection:

Select glove material impermeable and resistant to the substance.

#### Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

#### General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

Perform routine housekeeping.

Wash contaminated clothing before reusing.

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Page 3 of 8

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.23.2017

Page 4 of 8

# Xylene Cyanol, FF, 0.01%

# SECTION 9: Physical and chemical properties

# Information on basic physical and chemical properties

Appearance	Green colored liquid
Odor	Odorless
Odor threshold	Not available
pH	7 [Neutral] (1% soln/water)
Melting point/freezing point	Approx. 0°C
Initial boiling point/range	Approx. 100°C
Flash point (closed cup)	Not available
Evaporation rate	> 1
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	0 Vol %
Lower flammability/explosive limit	0 Vol %
Vapor pressure	2.3 kPa (at 20°C) or 23 hPa (17 mmHg) at 20°C (68°F)
Vapor density	0.62 (Air = 1)
Density	Not available
Relative density	1 (Water = 1)
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not available
Dynamic viscosity	0.952 mPas at 20°C (68°F)
Kinematic viscosity	Not available
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

#### Other information

# SECTION 10: Stability and reactivity

#### Reactivity:

Does not react under normal conditions of use and storage.

#### Chemical stability:

Stable under normal conditions of use and storage.

#### Possibility of hazardous reactions:

None under normal conditions of use and storage.

# Conditions to avoid:

None known.

#### Incompatible materials:

None known.

# Hazardous decomposition products:

None known.

# **SECTION 11: Toxicological information**

# **Acute toxicity**

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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#### Xylene Cyanol, FF, 0.01%

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

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

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

Product data: No data available.

Substance data:

Name	Result	
Xylene Cyanol FF	Causes skin irritation.	

## Serious eye damage/irritation

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

Product data: No data available.

Substance data:

Name	Result
Xylene Cyanol FF	Causes serious eye irritation.

# Respiratory or skin sensitization

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

Product data: No data available.

Substance data: No data available.

#### Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

#### Germ cell mutagenicity

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

Product data: No data available.

Substance data: No data available.

## Reproductive toxicity

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

Product data: No data available.

Substance data: No data available.

#### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Xylene Cyanol FF	Specific Target Organ Toxicity, Single Exposure - May cause respiratory irritation.

#### Specific target organ toxicity (repeated exposure)

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

Product data: No data available. Substance data: No data available.

**Aspiration toxicity** 

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#### Xylene Cyanol, FF, 0.01%

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

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

#### **SECTION 12: Ecological information**

#### Acute (short-term) toxicity

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

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

Product data: No data available. Substance data: No data available.

### Persistence and degradability

Product data: No data available.

Substance data: No data available.

**Bioaccumulative potential** 

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.
Substance data: No data available.
Other adverse effects: No data available.

#### SECTION 13: Disposal considerations

#### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

#### **SECTION 14: Transport information**

## United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

#### International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None

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Xylene (	Evanol.	.FF. O.	01%
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Environmental hazards	None
Special precautions for user	None

#### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		
Bulk Name None		
Ship type	None	
Pollution category	None	

# SECTION 15: Regulatory information

#### **United States regulations**

#### Inventory listing (TSCA):

7732-18-5		Listed
2650-17-1	Xylene Cyanol FF	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

#### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals: Not determined.

CERCLA: Not determined. RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

# Massachusetts Right to Know:

2650-17-1	Xylene Cyanol FF	Not Listed
7732-18-5	Deionized Water, Type II	Not Listed

## New Jersey Right to Know:

2650-17-1	Xylene Cyanol FF	Not Listed
7732-18-5	Deionized Water, Type II	Not Listed

#### **New York Right to Know:**

2650-17-1	Xylene Cyanol FF	Not	ı
		Listed	

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lene Cyanol,FF, 0.01	1%	
7732-18-5	Deionized Water, Type II	Not Listed
Pennsylvania Rig	ht to Know:	
2650-17-1	Xylene Cyanol FF	Not Listed
7732-18-5	Deionized Water, Type II	Not Listed

California Proposition 65: Not determined.

# **SECTION 16: Other information**

# Abbreviations and Acronyms: None Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 1-0-0 HMIS: 1-0-0

Initial preparation date: 05.23.2017

**End of Safety Data Sheet** 

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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#### Xylene CyaNol FF/BG/MR Indicator

#### **SECTION 1: Identification**

#### **Product identifier**

Product name: Xylene CyaNol FF/BG/MR Indicator

Product code: KEMXO4010-A

# Recommended use of the product and restriction on use

Relevant identified uses: Nov 2 2015 12:00AM

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

#### Manufacturer or supplier details

Manufacturer: Supplier: United States

AquaPhoenix Scientific AquaPhoenix Scientific Inc.

860 Gitts Run Road 860 Gitts Run Road

Hanover Hanover PA 17331 PA 17331 (717) 632-1291 (717) 632-1291

## **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

#### SECTION 2: Hazard(s) identification

GHS classification: Not a hazardous substance or mixture

Label elements

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None Hazards not otherwise classified: None

# SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 845-10-3	Methyl Red, Sodium Salt	0.02
CAS number: 62625-32-5	Bromcresol Green, Sodium Salt	0.03
CAS number: 7732-18-5	Water	99.94
CAS number: 2650-17-1	Xylene Cyanol FF	0

Additional Information: None

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#### Xylene CyaNol FF/BG/MR Indicator

#### **SECTION 4: First aid measures**

## **Description of first aid measures**

#### General notes:

Not determined or not applicable.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

#### After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

#### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lenses, if present and easy to do

Continue rinsing

Get medical advice/attention

#### After swallowing:

Do not induce vomiting

Get medical advice/attention if you feel unwell

Rinse mouth and then drink plenty of water

#### Most important symptoms and effects, both acute and delayed

#### Acute symptoms and effects:

Not determined or not applicable.

#### **Delayed symptoms and effects:**

Not determined or not applicable.

# Immediate medical attention and special treatment

#### Specific treatment:

Not determined or not applicable.

#### Notes for the doctor:

Not determined or not applicable.

#### SECTION 5: Firefighting measures

#### Extinguishing media

#### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

#### Unsuitable extinguishing media:

Not determined or not applicable.

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

#### Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

Refer to Section 8

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

#### Special precautions:

Heating causes a rise in pressure, risk of bursting and combustion

Shut off sources of ignition

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#### Xylene CyaNol FF/BG/MR Indicator

Carbon monoxide and carbon dioxide may form upon combustion

#### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

#### **Environmental precautions:**

Prevent from reaching drains, sewer or waterway

#### Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

#### Reference to other sections:

Not determined or not applicable.

#### SECTION 7: Handling and storage

#### Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Use only with adequate ventilation.

#### Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

Store away from foodstuffs.

## SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

## Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

#### Biological limit values:

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Not determined or not applicable.

# Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

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#### Personal protection equipment

#### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

#### Skin and body protection:

Select glove material impermeable and resistant to the substance.

#### Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

#### General hygienic measures:

Wash hands before breaks and at the end of work.

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#### Xyiene CyaNol FF/BG/MR Indicator

Avoid contact with skin, eyes and clothing.

Perform routine housekeeping.

Wash contaminated clothing before reusing.

# SECTION 9: Physical and chemical properties

# Information on basic physical and chemical properties

Dark green liquid
Odorless
Not determined or not available.
7 [Neutral] (1% soln/water)
0 °C (32 °F)
100 °C (212 °F)
Not determined or not available.
Not determined or not available.
Not determined or not available.
0 Vol %
0 Vol %
2.3 kPa (at 20 °C) or 23 hPa (17 mmHg) at 20 °C (68 °F)
0.62 (Air = 1)
1 g/cm³ (8.345 lbs./gal) at 20 °C (68 °F)
1 (Water = 1)
Not determined or not available.
0.952 mPas at 20 °C (68 °F)
Not determined or not available.
Not determined or not available.
Not determined or not available.

#### Other information

# SECTION 10: Stability and reactivity

#### Reactivity:

Does not react under normal conditions of use and storage.

# Chemical stability:

Stable under normal conditions of use and storage.

#### Possibility of hazardous reactions:

None under normal conditions of use and storage.

#### Conditions to avoid:

None known.

#### Incompatible materials:

None known.

## **Hazardous decomposition products:**

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#### Xylene CyaNol FF/BG/MR Indicator

None known.

#### **SECTION 11: Toxicological information**

#### **Acute toxicity**

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

Product data: No data available.

Substance data: No data available.

#### Skin corrosion/irritation

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

Product data: No data available.

Substance data:

Name	Result
Xylene Cyanol FF	Causes skin irritation.

#### Serious eye damage/irritation

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

Product data: No data available.

Substance data:

Name	Result
Xylene Cyanol FF	Causes serious eye irritation.

#### Respiratory or skin sensitization

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

Product data: No data available.

Substance data: No data available.

#### Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

## Germ cell mutagenicity

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

Product data: No data available.

Substance data: No data available.

#### Reproductive toxicity

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

Product data: No data available.

Substance data: No data available.

# Specific target organ toxicity (single exposure)

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

Product data: No data available.

Substance data:

Name	Result
	Specific Target Organ Toxicity, Single Exposure - May cause respiratory irritation.

#### Specific target organ toxicity (repeated exposure)

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#### Xylene CyaNol FF/BG/MR Indicator

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

**Aspiration toxicity** 

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

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

#### **SECTION 12: Ecological information**

#### Acute (short-term) toxicity

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

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity
Product data: No data available.
Substance data: No data available.

# Persistence and degradability

Product data: No data available.

Substance data: No data available.

**Bioaccumulative potential** 

Product data: No data available. Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

#### SECTION 13: Disposal considerations

#### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

# **SECTION 14: Transport information**

#### United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

#### International Maritime Dangerous Goods (IMDG)

UN number	Not regulated

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# Xylene CyaNol FF/BG/MR Indicator

UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

#### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code			
Bulk Name None			
Ship type None			
Pollution category None			

#### SECTION 15: Regulatory information

#### **United States regulations**

## Inventory listing (TSCA):

7732-18-5	Water	Listed
2650-17-1	Xylene Cyanol FF	Listed
62625-32-5	Bromcresol Green, Sodium Salt	Listed
845-10-3	Methyl Red, Sodium Salt	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

#### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals: Not determined.

**CERCLA:** Not determined. **RCRA:** Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

#### Massachusetts Right to Know:

7732-18-5	Water	Not Listed
2650-17-1	Xylene Cyanol FF	Listed
62625-32-5	Bromcresol Green, Sodium Salt	Not Listed
845-10-3	Methyl Red, Sodium Salt	Not Listed

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# Xylene CyaNol FF/BG/MR Indicator

New Jersey Right to Know:

7732-18-5	Water	Not Listed
2650-17-1	Xylene Cyanol FF	Listed
62625-32-5	Bromcresol Green, Sodium Salt	Not Listed
845-10-3	Methyl Red, Sodium Salt	Not Listed

**New York Right to Know:** 

7732-18-5	Water	Not Listed	
2650-17-1	Xylene Cyanol FF	Listed	
62625-32-5	Bromcresol Green, Sodium Salt	Not Listed	
845-10-3	Methyl Red, Sodium Salt	Not Listed	

Pennsylvania Right to Know:

7732-18-5	Water	Not Listed
2650-17-1	Xylene Cyanol FF	Not Listed
62625-32-5	Bromcresol Green, Sodium Salt	Not Listed
845-10-3	Methyl Red, Sodium Salt	Not Listed

California Proposition 65: Not determined.

#### SECTION 16: Other information

# Abbreviations and Acronyms: None

#### Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 0-0-0 HMIS: 0-0-0

Initial preparation date: 05.22.2017

**End of Safety Data Sheet**