# 224882



# **Material Safety Data Sheet**

Issuing Date 9/13/2011 Revision Number 0

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name WIDE RANGE INDICATOR

Product Code(s) 2218

Synonyms none

Recommended Use Test kit reagent. Industrial (not for food or food contact use). Laboratory chemicals.

Company LaMotte Company, Inc.

802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620

USA

**Emergency Telephone Number** 24 Hour Emergency Number (CHEM-TEL):

USA, Canada, Puerto Rico 1-800-255-3924

Outside North American Continent (Call collect) 813-248-0585

# 2. HAZARDS IDENTIFICATION

POISON! DANGER!

**Emergency Overview** 

Flammable liquid and vapor

Harmful by inhalation, in contact with skin and if swallowed

May be fatal or cause blindness if swallowed

Affects central nervous system May cause skin and eye irritation

Appearance Dark green Physical State Liquid Odor Alcohol

**Potential Health Effects** 

Principle Routes of Exposure Skin contact, Ingestion, and, Inhalation.

**Acute Toxicity** 

**Eyes** May cause irritation.

**Skin** Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

**Inhalation** May cause irritation of respiratory tract. May cause central nervous system depression with

nausea, headache, dizziness, vomiting, and incoordination.

**Ingestion** May cause drowsiness and dizziness. May be fatal or cause blindness if swallowed. May

cause central nervous system depression.

**Chronic Effects** 

Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage Prolonged skin contact may

cause skin irritation and/or dermatitis

**Environmental Hazard** Harmful to aquatic organisms.

WIDE RANGE INDICATOR Product Code(s) 2218

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name       | CAS-No    | Weight % |
|---------------------|-----------|----------|
| Methyl red          | 493-52-7  | <0.05    |
| Bromothymol blue    | 76-59-5   | <0.05    |
| Thymol blue         | 76-61-9   | <0.05    |
| Phenolphthalein     | 77-09-8   | <0.05    |
| Potassium hydroxide | 1310-58-3 | <0.1     |
| 2,4-Dinitrophenol   | 51-28-5   | 0.05     |
| Methyl alcohol      | 67-56-1   | 2        |
| Ethyl alcohol       | 64-17-5   | 52       |
| Water               | 7732-18-5 | to 100%  |

WARNING! This product contains chemcials know to the State of California to cause cancer and birth defects or other reproductive harm.

# 4. FIRST AID MEASURES

**General Advice** Do not get in eyes, on skin, or on clothing. Consult a physician.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Consult a physician.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration and contact emergency personnel. Call a physician immediately.

**Ingestion** Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Call a

physician immediately.

**Protection of First-aiders**Use personal protective equipment. Do not use mouth-to-mouth method if victim ingested

or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped

with a one-way valve or other proper respiratory medical device.

Flammable.

#### 5. FIRE-FIGHTING MEASURES

Flammable Properties

Flash Point ca. 23°C (70°F) CC

Suitable Extinguishing Media Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or foam.

**Explosion Data** 

NFPA Health Hazard 2 Flammability 3 Stability 0 Physical and Chemical

Hazards -

HMIS Health Hazard 2 Flammability 3 Stability 0

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Refer to Section 8. Ensure adequate ventilation. Remove all sources of ignition.

Methods for Containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste

container. Dispose according to federal, state, and local regulations.

**Methods for Cleaning Up**After cleaning, flush away traces with water.

# 7. HANDLING AND STORAGE

WIDE RANGE INDICATOR Product Code(s) 2218

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact

with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this

product.

Storage Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from

heat and sources of ignition. Do not store near combustible materials. Keep out of the

reach of children.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Chemical Name                    | ACGIH TLV     | OSHA PEL                                     | NIOSH IDLH   |  |
|----------------------------------|---------------|--|--|--|
| Methyl red<br>493-52-7           | None Known    | None Known                                   | None Known   |  |
| Bromothymol blue<br>76-59-5      | None Known    | None Known                                   | None Known   |  |
| Thymol blue<br>76-61-9           | None Known    | None Known                                   | None Known   |  |
| Phenolphthalein<br>77-09-8       | None Known    | None Known                                   | None Known   |  |
| Potassium hydroxide<br>1310-58-3 | None Known    | None Known                                   | Ceiling: 2 mg/m <sup>3</sup>   |  |
| 2,4-Dinitrophenol<br>51-28-5     | None Known    | None Known                                   | None Known   |  |
| Methyl alcohol<br>67-56-1        | 250           | TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup>   | IDLH: 6000 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m³<br>STEL: 250 ppm<br>STEL: 325 mg/m³ |  |
| Ethyl alcohol<br>64-17-5         | TWA: 1000 ppm | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup> | IDLH: 3300 ppm<br>TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>                       |  |
| Water<br>7732-18-5               | None Known    | None Known                                   | None Known   |  |

**Personal Protective Equipment** 

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing. Nitrile rubber. Gloves & Lab Coat.

**Respiratory Protection** Use only with adequate ventilation.

Hygiene Measures Do not eat, drink or smoke when using this product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceDark greenOdorAlcoholPhysical StateLiquidpHNot applicable

Flash Point ca. 23°C (70°F) CC Boiling Point/Range 78.5°C (173.3°F) for SDA (3A)

Ethyl Alcohol

**Explosion Limits** 

Upper19% EthanolLower3.3% Ethanol

Vapor Pressure 48 mmHg @ 20 °C for SDA (3A) Vapor Density 1.6 @ 20 °C (Air=1) for SDA

Ethyl Alcohol (3A) Ethyl Alcohol

# 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions of use and storage.

Incompatible Products Nitric acid. Strong oxidizing agents.

Conditions to Avoid Heat, flames and sparks.

Hazardous Decomposition Products Carbon oxides (COx).

Hazardous Polymerization Hazardous polymerization does not occur.

# 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity**

| Chemical Name       | LD50 Oral        | LD50 Dermal         | LC50 Inhalation                            |  |
|---------------------|------------------|---------------------|--|--|
| Methyl red          | None Known       | None Known          | None Known                                 |  |
| Bromothymol blue    | None Known       | None Known          | None Known                                 |  |
| Thymol blue         | None Known       | None Known          | None Known                                 |  |
| Phenolphthalein     | None Known       | None Known          | None Known                                 |  |
| Potassium hydroxide | 214 mg/kg (Rat)  | None Known          | 85 mg/L Gambusia affinis 24 hr             |  |
| 2,4-Dinitrophenol   | 30 mg/kg (Rat)   | None Known          | None Known                                 |  |
| Methyl alcohol      | 5628 mg/kg (Rat) | 15800 mg/kg(Rabbit) | 64000 ppm (Rat) 4 h<br>83.2 mg/L (Rat) 4 h |  |
| Ethyl alcohol       | 1501 mg/kg (Rat) | None Known          | 124.7 mg/L (Rat) 4 h                       |  |
| Water               | 90 mL/kg (Rat)   | None Known          | None Known                                 |  |

#### **Chronic Toxicity**

Chronic Toxicity Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic

beverage. Prolonged skin contact may cause skin irritation and/or dermatitis.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name       | ACGIH      | IARC       | NTP                    | OSHA       |
|---------------------|------------|------------|------------------------|------------|
| Methyl red          | None Known | None Known | None Known             | None Known |
| Bromothymol blue    | None Known | None Known | None Known             | None Known |
| Thymol blue         | None Known | None Known | None Known             | None Known |
| Phenolphthalein     | None Known | Group 2B   | Reasonably Anticipated | X          |
| Potassium hydroxide | None Known | None Known | None Known             | None Known |
| 2,4-Dinitrophenol   | None Known | None Known | None Known             | None Known |
| Methyl alcohol      | None Known | None Known | None Known             | None Known |
| Ethyl alcohol       | None Known | None Known | Known                  | None Known |
| Water               | None Known | None Known | None Known             | None Known |

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program) Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

**OSHA: (Occupational Safety & Health Administration)** 

X - Present

# Endocrine Disruptor Information

| Chemical Name    | EU - Endocrine Disrupters<br>Candidate List | EU - Endocrine Disruptors -<br>Evaluated Substances | Japan - Endocrine Disruptor<br>Information |  |
|------------------|---|---|--|--|
| Methyl red       | None Known                                  | None Known  | None Known                                 |  |
| Bromothymol blue | None Known                                  | None Known  | None Known                                 |  |
| Thymol blue      | None Known                                  | None Known  | None Known                                 |  |
| Phenolphthalein  | Group III Chemical                          | None Known  | None Known                                 |  |

| Potassium hydroxide | None Known | None Known | None Known |
|---------------------|------------|------------|------------|
| 2,4-Dinitrophenol   | None Known | None Known | None Known |
| Methyl alcohol      | None Known | None Known | None Known |
| Ethyl alcohol       | None Known | None Known | None Known |
| Water               | None Known | None Known | None Known |

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

| Chemical Name       | Toxicity to Algae | Toxicity to Fish   | Microtox  | Daphnia Magna (Water<br>Flea)                   |
|---------------------|-------------------|--|---|---|
| Methyl red          | None Known        | None Known   | None Known  | None Known                                      |
| Bromothymol blue    | None Known        | None Known   | None Known  | None Known                                      |
| Thymol blue         | None Known        | None Known   | None Known  | None Known                                      |
| Phenolphthalein     | None Known        | None Known   | None Known  | None Known                                      |
| Potassium hydroxide | None Known        | None Known   | None Known  | None Known                                      |
| 2,4-Dinitrophenol   | None Known        | LC50= 6.58 mg/L<br>Pimephales promelas 96 h  | None Known  | None Known                                      |
| Methyl alcohol      | None Known        | LC50 13500 - 17600 mg/L Lepomis macrochirus 96 h LC50 18 - 20 mL/L Oncorhynchus mykiss 96 h LC50 19500 - 20700 mg/L Oncorhynchus mykiss 96 h LC50= 28200 mg/L Pimephales promelas 96 h LC50> 100 mg/L Pimephales promelas 96 h |   | None Known                                      |
| Ethyl alcohol       | None Known        | LC50= 12900 mg/L<br>Oncorhynchus mykiss 96 h<br>LC50= 14.2 mg/L<br>Pimephales promelas 96 h  | EC50 = 34634 mg/L 30 min<br>EC50 = 35470 mg/L 5 min | EC50 = 10800 mg/L 24 h<br>EC50 = 9268 mg/L 48 h |
| Water               | None Known        | None Known   | None Known  | None Known                                      |

# **Persistence and Degradability**

Ethanol: When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into water, this material may evaporate to a moderate extent. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to be readily removed from the atmosphere by dry and wet deposition. When released into the air, this material is expected to have a half-life between 1 and 10 days.

| Chemical Name       | Log Pow    |
|---------------------|------------|
| Methyl red          | None Known |
| Bromothymol blue    | None Known |
| Thymol blue         | None Known |
| Phenolphthalein     | None Known |
| Potassium hydroxide | = 0.65     |
|                     | = 0.83     |
| 2,4-Dinitrophenol   | = 1.54     |
| Methyl alcohol      | = -0.77    |
| Ethyl alcohol       | = -0.32    |
| Water               | None Known |

# 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** 

Dispose of in accordance with local regulations.

| Chemical Name                      | RCRA - Halogenated<br>Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|------------------------------------|---|------------------------|------------------------|------------------------|
| Methyl red - 493-52-7              | None Known                              | None Known             | None Known             | None Known             |
| Bromothymol blue - 76-59-5         | None Known                              | None Known             | None Known             | None Known             |
| Thymol blue - 76-61-9              | None Known                              | None Known             | None Known             | None Known             |
| Phenolphthalein - 77-09-8          | None Known                              | None Known             | None Known             | None Known             |
| Potassium hydroxide -<br>1310-58-3 | None Known                              | None Known             | None Known             | None Known             |
| 2,4-Dinitrophenol - 51-28-5        | None Known                              | P048                   | None Known             | None Known             |
| Methyl alcohol - 67-56-1           | None Known                              | None Known             | None Known             | None Known             |
| Ethyl alcohol - 64-17-5            | None Known                              | None Known             | None Known             | None Known             |
| Water - 7732-18-5                  | None Known                              | None Known             | None Known             | None Known             |

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| Chemical Name | California Hazardous Waste Status |
|---------------|-----------------------------------|
| Ethyl alcohol | Toxic; Ignitable                  |

# 14. TRANSPORT INFORMATION

DOT

Proper Shipping Name ETHANOL SOLUTION (Ethyl Alcohol Solution)

Hazard Class 3 UN-No 1170 Packing Group II

IATA

**UN-No** 1170

Proper Shipping Name ETHANOL SOLUTION (Ethyl Alcohol Solution)

Hazard Class 3
Packing Group ||

IMDG/IMO

Proper Shipping Name ETHANOL SOLUTION (Ethyl Alcohol Solution)

Hazard Class 3 UN-No 1170 Packing Group II

# 15. REGULATORY INFORMATION

# **International Inventories**

| Component                                 | TSCA    | DSL | EINECS/ELIN<br>CS | ENCS    | IECSC | KECL     | PICCS | AICS |
|---|---------|-----|-------------------|---------|-------|----------|-------|------|
| Methyl red<br>493-52-7 ( <0.05 )          | Present | Х   | Х                 | 5-243   | Х     | KE-06693 | Х     | X    |
| Bromothymol blue<br>76-59-5 ( <0.05 )     | Present | Х   | Х                 | ENCS    | Х     | KE-02744 | Х     | X    |
| Thymol blue<br>76-61-9 ( <0.05 )          | Present | Х   | Х                 | ENCS    | Х     | KECL     | Х     | Х    |
| Phenolphthalein<br>77-09-8 ( <0.05 )      | Present | Х   | Х                 | 9-1152  | Х     | KE-03234 | Х     | Х    |
| Potassium hydroxide<br>1310-58-3 ( <0.1 ) | Present | Х   | Х                 | 1-369   | Х     | KE-29139 | Х     | Х    |
| 2,4-Dinitrophenol<br>51-28-5 ( 0.05 )     | Present | Х   | Х                 | 3-797   | Х     | KE-11946 | Х     | Х    |
| Methyl alcohol<br>67-56-1 (2)             | Present | Х   | Х                 | (2)-201 | Х     | KECL     | Х     | Х    |
| Ethyl alcohol<br>64-17-5 ( 52 )           | Present | Х   | Х                 | 2-202   | Х     | KE-13217 | Х     | Х    |

| Water                 | Present | Х | Х | ENCS | Х | KE-35400 | Х | Х |
|-----------------------|---------|---|---|------|---|----------|---|---|
| 7732-18-5 ( to 100% ) |         |   |   |      |   |          |   |   |

# **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name       | CAS-No    | Weight % | SARA 313 - Threshold<br>Values % |
|---------------------|-----------|----------|----------------------------------|
| Methyl red          | 493-52-7  | < 0.05   | None Known                       |
| Bromothymol blue    | 76-59-5   | < 0.05   | None Known                       |
| Thymol blue         | 76-61-9   | <0.05    | None Known                       |
| Phenolphthalein     | 77-09-8   | < 0.05   | None Known                       |
| Potassium hydroxide | 1310-58-3 | <0.1     | None Known                       |
| 2,4-Dinitrophenol   | 51-28-5   | 0.05     | 1.0                              |
| Methyl alcohol      | 67-56-1   | 2        | 1.0                              |
| Ethyl alcohol       | 64-17-5   | 52       | None Known                       |
| Water               | 7732-18-5 | to 100%  | None Known                       |

# SARA 311/312 Hazard Categories

Acute Health Hazard
Yes
Chronic Health Hazard
Yes
Fire Hazard
Yes
Sudden Release of Pressure Hazard
No
Reactive Hazard
No

# **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| Component                                 | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous<br>Substances |
|---|--------------------------------|------------------------|---------------------------|-------------------------------|
| Methyl red<br>493-52-7 ( <0.05 )          | None Known                     | None Known             | None Known                | None Known                    |
| Bromothymol blue<br>76-59-5 ( <0.05 )     | None Known                     | None Known             | None Known                | None Known                    |
| Thymol blue<br>76-61-9 ( <0.05 )          | None Known                     | None Known             | None Known                | None Known                    |
| Phenolphthalein<br>77-09-8 ( <0.05 )      | None Known                     | None Known             | None Known                | None Known                    |
| Potassium hydroxide<br>1310-58-3 ( <0.1 ) | 1000 lb                        | None Known             | None Known                | Х                             |
| 2,4-Dinitrophenol<br>51-28-5 ( 0.05 )     | None Known                     | Х                      | Х                         | Х                             |
| Methyl alcohol<br>67-56-1 ( 2 )           | None Known                     | None Known             | None Known                | None Known                    |
| Ethyl alcohol<br>64-17-5 ( 52 )           | None Known                     | None Known             | None Known                | None Known                    |
| Water<br>7732-18-5 ( to 100% )            | None Known                     | None Known             | None Known                | None Known                    |

# Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs: .

| Chemical Name    | CAS-No   | Weight % | HAPS data  | VOC Chemicals | Class 1 Ozone<br>Depletors | Class 2 Ozone<br>Depletors |
|------------------|----------|----------|------------|---------------|----------------------------|----------------------------|
| Methyl red       | 493-52-7 | <0.05    | None Known | None Known    | None Known                 | None Known                 |
| Bromothymol blue | 76-59-5  | < 0.05   | None Known | None Known    | None Known                 | None Known                 |
| Thymol blue      | 76-61-9  | < 0.05   | None Known | None Known    | None Known                 | None Known                 |
| Phenolphthalein  | 77-09-8  | < 0.05   | None Known | Group III     | None Known                 | None Known                 |

| Potassium hydroxide | 1310-58-3 | <0.1    | None Known | None Known | None Known | None Known |
|---------------------|-----------|---------|------------|------------|------------|------------|
| 2,4-Dinitrophenol   | 51-28-5   | 0.05    | Present    | Group III  | None Known | None Known |
| Methyl alcohol      | 67-56-1   | 2       | Present    | Group IV   | None Known | None Known |
| Ethyl alcohol       | 64-17-5   | 52      | None Known | None Known | None Known | None Known |
| Water               | 7732-18-5 | to 100% | None Known | None Known | None Known | None Known |

# **CERCLA**

| Chemical Name       | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|---------------------|--------------------------|------------------------------------|
| Methyl red          | None Known               | None Known                         |
| Bromothymol blue    | None Known               | None Known                         |
| Thymol blue         | None Known               | None Known                         |
| Phenolphthalein     | None Known               | None Known                         |
| Potassium hydroxide | 1000 lb                  | None Known                         |
| 2,4-Dinitrophenol   | 10 lb                    | None Known                         |
| Methyl alcohol      | 5000 lb                  | None Known                         |
| Ethyl alcohol       | None Known               | None Known                         |
| Water               | None Known               | None Known                         |

# **U.S. State Regulations**

#### **California Proposition 65**

WARNING! This product contains chemicals know to the State of California to cause cancer and birth defects or other reproductive harm Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage

| Chemical Name       | CAS-No    | California Prop. 65 |
|---------------------|-----------|---------------------|
| Methyl red          | 493-52-7  | None Known          |
| Bromothymol blue    | 76-59-5   | None Known          |
| Thymol blue         | 76-61-9   | None Known          |
| Phenolphthalein     | 77-09-8   | Carcinogen          |
| Potassium hydroxide | 1310-58-3 | None Known          |
| 2,4-Dinitrophenol   | 51-28-5   | None Known          |
| Methyl alcohol      | 67-56-1   | Developmental       |
| Ethyl alcohol       | 64-17-5   | Carcinogen          |
| Water               | 7732-18-5 | None Known          |

# U.S. State Right-to-Know Regulations

| Chemical Name       | Massachusetts | New Jersey | Pennsylvania | Illinois   | Rhode Island |
|---------------------|---------------|------------|--------------|------------|--------------|
| Methyl red          | None Known    | None Known | None Known   | None Known | None Known   |
| Bromothymol blue    | None Known    | None Known | None Known   | None Known | None Known   |
| Thymol blue         | None Known    | None Known | None Known   | None Known | None Known   |
| Phenolphthalein     | None Known    | None Known | None Known   | None Known | None Known   |
| Potassium hydroxide | Х             | Х          | Х            | None Known | Х            |
| 2,4-Dinitrophenol   | Х             | Х          | Х            | X          | None Known   |
| Methyl alcohol      | X             | Х          | Х            | X          | Х            |
| Ethyl alcohol       | Х             | Х          | Х            | None Known | Х            |
| Water               | None Known    | None Known | None Known   | None Known | None Known   |

# **International Regulations**

#### **Mexico - Grade**

| Chemical Name    | Carcinogen Status | Exposure Limits |
|------------------|-------------------|-----------------|
| Methyl red       | None Known        | None Known      |
| Bromothymol blue | None Known        | None Known      |
| Thymol blue      | None Known        | None Known      |

| Phenolphthalein     | None Known | None Known                                       |
|---------------------|------------|--|
| Potassium hydroxide | None Known | None Known                                       |
| 2,4-Dinitrophenol   | None Known | None Known                                       |
| Methyl alcohol      | None Known | Mexico: TWA 200 ppm<br>Mexico: TWA 260 mg/m³     |
| Ethyl alcohol       | None Known | Mexico: TWA= 1000 ppm<br>Mexico: TWA= 1900 mg/m³ |
| Water               | None Known | None Known                                       |

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

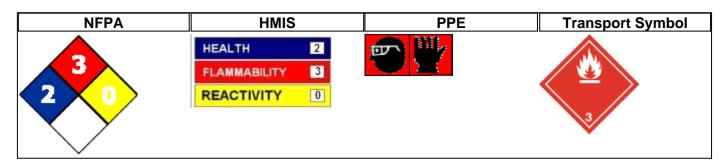
| Component                                 | WHMIS Hazard Class  |
|---|---|
| Methyl red<br>493-52-7 ( <0.05 )          | Uncontrolled product according to WHMIS classification criteria |
| Bromothymol blue<br>76-59-5 ( <0.05 )     | Uncontrolled product according to WHMIS classification criteria |
| Thymol blue<br>76-61-9 ( <0.05 )          | Not determined  |
| Phenolphthalein<br>77-09-8 ( <0.05 )      | Not determined  |
| Potassium hydroxide<br>1310-58-3 ( <0.1 ) | 1 %<br>D1B E  |
| 2,4-Dinitrophenol<br>51-28-5 ( 0.05 )     | 0.1 %   |
| Methyl alcohol<br>67-56-1 ( 2 )           | 1 %<br>B2 D1B D2A D2B   |
| Ethyl alcohol<br>64-17-5 ( 52 )           | 0.1 %<br>B2 D2B   |
| Water<br>7732-18-5 ( to 100% )            | Uncontrolled product according to WHMIS classification criteria |



| Chemical Name  | NPRI |
|----------------|------|
| Methyl alcohol | X    |

# **Legend** X - Listed

# 16. OTHER INFORMATION



Prepared By Issuing Date

Regulatory Affairs Department 9/13/2011

WIDE RANGE INDICATOR Product Code(s) 2218

**Revision Date Revision Note** 

02-May-2012

Initial Release

**Disclaimer** 

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS** 

Published Date: 02-May-2012 Page 10 / 10