



Safety Data Sheet
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

| | |
|----------------------------|--|
| Product Name | Thymolphthalein Indicator Solution (0.04% in 50% Alcohol) |
| NCL Catalog Number | T-40 |
| Product Description | Laboratory chemical |
| Supplier | |
| NCL of Wisconsin, Inc. | Telephone: 1-800-648-7836 Fax: 715-449-2454 |
| P.O. Box 8 | Emergency Contact: 1-800-424-9300 (Chemtrec) |
| Biramwood, WI 54414 | Email: nclabs@nclabs.com |

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

| | |
|--------------------------------|----------------------------|
| Flammable Liquids | Category 3 |
| Specific Target Organ Toxicity | Single Exposure Category 1 |



Signal Word Danger

Hazard Statements

| | |
|------|-----------------------------|
| H226 | Flammable liquid and vapor. |
| H370 | Causes damage to organs. |

Precautionary Statements

| | |
|----------------|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground and bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P242 | Use non-sparking tools. |
| P243 | Take action to prevent static discharges. |
| P260 | Do not breathe mist/vapors/spray. |
| P264 | Wash exposed skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| 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. |
| P308+P311 | IF exposed or concerned: Call a POISON CENTER or doctor. |
| P370+P378 | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/containers to comply with local, state and federal regulations. |

Other Hazards Not Contributing to the Classification

None under normal conditions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| | |
|--------------------------|----------------|
| Chemical Identity | Not applicable |
| Common Name | Not applicable |

Mixture

| Name | CAS # | Approximate % |
|--------------------------------------|-----------|---------------|
| Water | 7732-18-5 | 49.96 |
| Ethyl Alcohol | 64-17-5 | 46.00 |
| Thymolphthalein | 125-20-2 | 0.04 |
| Denaturants present in Ethyl Alcohol | | |
| Methanol | 67-56-1 | 2.50 |
| 4-Methyl-2-pentanone | 108-10-1 | 0.50 |
| Ethyl Acetate | 141-78-6 | 0.50 |
| Aliphatic Hydrocarbons | Unknown | 0.50 |

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

| | |
|-----------------------------------|--|
| General First Aid Measures | Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell. |
| If Inhaled | Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor if you feel unwell. |
| In Case of Skin Contact | Remove all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor if you feel unwell. |
| In Case of Eye Contact | Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor if you feel unwell. |
| If Swallowed | Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell. Ingestion of large quantities: Immediately take to the hospital. |

Most Important Symptoms/Effects Acute and Delayed

No additional information.

Indication of Immediate Medical Attention and Special Treatment Needed

Seek medical attention if exposed.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

| | |
|---|--|
| Suitable Extinguishing Media | Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable Extinguishing Media | Do not use a heavy water stream. |
| Special Hazards Arising from the Substance or Mixture | Highly flammable. Gas/vapor flammable with air within explosion limits. May be ignited by sparks. Gas/vapors spreads at floor level. |
| Reactivity | Upon combustion: CO and CO ₂ are formed. Reacts violently with many compounds; strong oxidizers. Violent to explosive reaction with some acids. |
| Special Protective Equipment and Precautions for Fire-Fighters | Wear self-contained breathing apparatus and protective clothing. Cool tanks/drums with water spray/remove them to safety. Do not move the load if exposed to heat. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

| | |
|--|--|
| Personal Precautions | Use personal protective equipment (see section 8). Evacuate area of non-essential personnel. Eliminate ignition sources. |
| Environmental Precautions | Prevent entry to sewers and public waters. Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark and explosion proof appliances and lighting equipment. Keep containers closed. Wash contaminated clothing before reuse. |
| Methods and Materials for Containment and Cleaning Up | Collect spillage with inert absorbent material. Store away from other materials. Wash clothing/equipment after handling. Ensure compliance with local, state and federal regulations. |

SECTION 7: HANDLING AND STORAGE

Handling and Storage

Precautions for Safe Handling

Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Conditions for Safe Storage Including any Incompatibilities

Keep in original container tightly closed, stored in a cool, dry, ventilated area. Store away from sunlight, which can contribute to instability. Store away from: heat sources, ignition sources, oxidizing agents, strong acids, water and moisture. Fireproof storeroom. Meet legal requirements.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Ethyl Alcohol, Denatured, Absolute (64-17-5) | | |
|---|-------------------------------------|------------------------|
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 1900 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |

Appropriate Engineering Controls

Material should be handled or transferred in a fume hood or with equivalent ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

Individual Protection Measures

Skin Protection

Avoid all unnecessary exposure.

Protective gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye-wash fountain and quick-drench facilities in work area.

Respiratory Protection

Wear appropriate mask.

Other Information

Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---------------------|
| Physical State | Liquid |
| Color | Colorless |
| Odor | Slight alcohol odor |
| Odor Threshold | Not determined |
| pH | Not determined |
| Melting Point/Freezing Point | Not determined |
| Initial Boiling Point and Boiling Range | Not determined |
| Flash Point | Not determined |
| Evaporation Rate | Not determined |
| Flammability (Solid, Gas) | Not determined |
| Upper/Lower Flammability/Explosive Limits | Not determined |
| Vapor Pressure | Not determined |
| Vapor Density | Not determined |
| Relative Density | Not determined |
| Density | Not determined |
| Solubility | Not determined |
| Partition Coefficient: n-octanol/water | Not determined |
| Auto-Ignition Temperature | Not determined |
| Decomposition Temperature | Not determined |
| Viscosity | Not determined |

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | Upon combustion: CO and CO ₂ are formed. Reacts violently with many compounds. Strong oxidizers: increased risk of fire/explosion. Violent explosive reaction with some acids. |
| Chemical Stability | Stable under ordinary conditions of use and storage. |
| Possibility of Hazardous Reactions | No data available |
| Conditions to Avoid | Extremely high or low temperatures. Heat and sunlight can contribute to instability. Open flame. |
| Incompatible Materials | Strong acids, strong bases, and strong oxidizers |
| Hazardous Decomposition Products | When heated to decomposition, can emit toxic gases, carbon dioxide, and carbon monoxide. May release flammable gases. |

SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|--|----------------|
| Acute Toxicity | Not classified |
| 4-Methyl-2-Pentanone (108-10-1) | |
| LD50 oral guinea pig | 1600 mg/kg |
| Methanol (67-56-1) | |
| LD50 dermal rabbit | 15800 mg/kg |

| | |
|--|--|
| Skin Corrosion/Irritation | Not classified |
| Serious Eye Damage/Irritation | Not classified |
| Respiratory or Skin Sensitization | Not classified |
| Germ Cell Mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive Toxicity | Not classified |
| Specific Target Organ Toxicity (Single Exposure) | Causes damage to organs (central nervous system, optic nerve). |
| Specific Target Organ Toxicity (Repeated Exposure) | Not classified |
| Aspiration Hazard | Not classified |
| Potential Adverse Human Health Effects and Symptoms | Harmful if swallowed. |

SECTION 12: ECOLOGICAL INFORMATION

| | |
|--------------------------------------|----------------|
| Toxicity | Not applicable |
| Persistence and Degradability | Not applicable |
| Bioaccumulative Potential | Not applicable |
| Mobility in Soil | Not applicable |
| Other Adverse Effects | Not applicable |

SECTION 13: DISPOSAL CONSIDERATIONS

Methods of Disposal

| | |
|---------------------------------|---|
| Disposal Recommendations | Dispose of contents/containers in accordance with local, state and federal regulations. |
| Ecology-Waste Materials | Avoid release to the surrounding environment. |

SECTION 14: TRANSPORT INFORMATION

| | |
|-----------------------------------|---------------------------------------|
| UN Number | 1993 |
| UN Shipping Name | Flammable liquids (contains ethanol). |
| Transport Hazard Class(es) | 3 |
| Packing Group | II |
| Environmental Hazards | Not applicable |
| Transport in Bulk | 242 |
| Special Precautions | Not applicable |

SECTION 15: REGULATORY INFORMATION

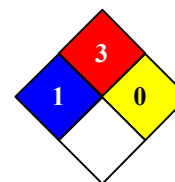
| |
|---|
| Ethyl Alcohol (64-17-5) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| Water (7732-18-5) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| Thymolphthalein (125-20-2) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

SECTION 16: OTHER INFORMATION

Revision Date: 04/10/2015

NFPA Hazards

| | |
|-------------------------------|--|
| Health Hazard | 1: Exposure would cause irritation with only minor residual injury. |
| Fire Hazard | 3: Liquids and solids that can be ignited under almost all ambient temperature conditions. |
| Reactivity/Instability | 0: Normally stable, even under fire exposure conditions, and is not reactive with water. |



HMIS III Rating

| | |
|----------------------------|--|
| Health | 1: Irritation or minor reversible injury possible. |
| Flammability | 3: Materials capable of ignition under almost all normal temperature conditions. |
| Physical Hazard | 0: Materials that are normally stable, even under fire conditions. |
| Personal Protection | H |

| T-40 | |
|---------------------|---|
| Health | 1 |
| Flammability | 3 |
| Physical Hazard | 0 |
| Personal Protection | H |

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, NCL of Wisconsin, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for their conditions of use. Accordingly, NCL of Wisconsin, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

END OF SAFETY DATA SHEET