PORT ATKINSON, WI 53538-0901 -800-558-9595

IMPORTANT

MATERIAL SAFETY DATA SHEET

| READ CAREFULLY BEFORE USING CHEMICAL OSHA requires that this form be kept on file. |
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| OSHA requires that this form be kept on file. |
| Product No. KM 771 M |
| Product Name UNIVERSAL INDICATOR |
| SOLUTION |

CHEMTREC 800-424-9300 Health Hazard 3 Flammability Reactivity

| Chemical Synonyms | None . |
|----------------------|----------------|
| Formula | See Section II |
| C.A.S. No. | See Section II |

None Established

None Established

None Established

1000 ppm

<0.01%

< 0.01%

<0.01%

47+%

Bal.

TLV Units

None Established

None Established

None Established 1000 ppm

Principal Hazardous Component(s)

| Methyl Red | C.A.S. #493-52-7 |
|------------------|------------------|
| Bromothymol Blue | C.A.S. #76-59-5 |
| Phenolohthalein | C.A.S. #77-09-8 |

C.A.S. #64-17-5 Ethyl Alcohol, denatured

Water (nonhazardous)

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* chemical subject to the reporting requirements of SARA Title III.

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|------------------------|--|--|-------------------------------------|
| Melting Point ('F) | N/A | Specific Gravity (H ₂ O=1) | <1 |
| Boiling Point ('F) | N/A | Percent Volatile by Volume (%) | +99% |
| Vapor Pressure (mm Hg) | N/A | Evaporation Rate (=1) | N/A |
| Vapor Density (Air=1) | N/A | | |
| Solubility in Water | Complete | | |
| Appearance & Odor | Orange colored solution | | |

| SECTION | | A STATE OF THE STA | | |
|-----------------------|--|--|-------------------|----------|
| Flash Point | 51°F closed cup (95% Ethyl Alcohol) | Flammable Limits in Air | Lower | Upper |
| (Method Used) | % by Volume | 3.3 | 19.0 | |
| Extinguisher Media | Carbon dioxide, dry chemical | , alcohol-type foam, water spra | y or universal-ty | pe foam. |

Special Firefighting Procedures

Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool fire-exposed containers. Avoid using a solid stream of water.

Unusual Fire and Explosion Hazards

None known.

Denatured alcohol solution, 3, NA1987, PGII

| rutesnoia | Limit | AMINA | | |
|-----------|---------|-------|---------|-----------|
| 1000 nnn | n for l | Ethyl | Alcohol | denatured |

Effects of Overexposure

Irritation to skin, eyes and if inhaled. Ingestion: nausea, vomiting, diarrhea, drowsine dizziness, staggering gait, weakness. Inhalation: weakness, headache, narcosis, dizziness, vomiting, nausea, drowsiness, loss of appetite, unconsciousness. Methyl red has been found to be a possible tumorigenic agent but is less than 0.1% in content.

Emergency and First Aid Procedures

Denatured Ethyl Alcohol cannot be made non-poisonous! Call a physician. Eye & Skin: Immediately flush with water at least 15 minutes. Inhalation: Remove to fresh air. Ingestion: Drink water and induce vomiting.

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| Conditions to Avoid |
| Heat, ignition sources, fire. |
| Oxidizing agents. |
| Carbon Monoxide, carbon dioxide, nitrogen oxide. |
| Conditions to Avoid |
| N/A |
| SPILL OR LEAK PROCEDURES Material is Released or Spilled |
| |

Absorb small spill with noncombustible material and containerize for proper dis

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of cetalog-size qua Incineration in accordance with all federal, state and local regulations.

| Other Protective Equipment | Wear protective clothi | ing to prevent co | ontact. Eye bath | and safety | shower available. | |
|---------------------------------------|------------------------|-------------------|------------------|------------|-------------------|----|
| Protective Gloves | Rubber gloves | | Eye Protection | | Safety goggles | |
| | Mechanical (General) | ***** | | Other | | |
| Ventilation | Local Exhaust | X | | Special | 14107 | |
| Respiration Protection (Specify Type) | NIOSH-appro | ved respira | ator in area | s of hig | gh concentration | S. |

Precautions to be Taken in Handling & Storing

Avoid breathing vapor and any contact. Keep away from heat, sparks and flame. Do not take internally

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

None

For laboratory use only. Not for di household use. Keep out of reach **Effective Date** 04/06/95 Steven C. Quandt