

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: H.D. SPRAY CLEANER

PRODUCT I.D. NUMBER (PIN): 2491

H.M.I.S.

PRODUCT NUMBER: 02204SC

PRODUCT USE: Concentrated all purpose spray cleaner

WHMIS CLASS: E; B3; D2B

DOT HAZARD CLASS: Corrosive Liquid

COMPANY:

Essential Industries, Inc.
P.O. Box 12
Merton, WI 53056-0012

BULK DOT SHIPPING NAME:

Caustic Alkali Liquid, N.O.S.
(Monoethanolamine)
8, UN1719, PGIII

EMERGENCY PHONE: 800-843-6174

| | | HAZARD RATING |
|---|-----------------------------|--|
| 3 | HEALTH | 4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant |
| 2 | FIRE | |
| 1 | REACTIVITY | |
| C | MAXIMUM PERSONAL PROTECTION | |

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

ABBREVIATION KEY: N.A. - Not Applicable N.E. = Not Established N.D. = Not Determined

SECTION 2 - HAZARDOUS INGREDIENTS INFORMATION

HAZARDOUS CHEMICAL IDENTITY

| | CAS NO. | % | PEL | TLV | LD50 | LC50 |
|------------------------------|-----------|-------|--------|--------|-----------|------|
| Water | 7732-18-5 | 40-70 | N.E. | N.E. | N.D. | N.D. |
| Anionic surfactant | N.A. | 10-30 | N.E. | N.E. | N.D. | N.D. |
| n-Propoxypropanol | 1569-01-3 | 10-30 | N.E. | N.E. | N.D. | N.D. |
| Monoethanolamine | 141-43-5 | 10-30 | 3ppm | 3ppm | 1720mg/kg | N.D. |
| Propylene glycol butyl ether | 5131-66-8 | 5-15 | N.E. | N.E. | 3300mg/kg | N.D. |
| 1-Methoxy-2-propanol | 107-98-2 | 1-5 | 100ppm | 100ppm | 6.6mg/kg | N.D. |
| Nonionic surfactant | N.A. | 1-5 | N.E. | N.E. | N.D. | N.D. |
| Tetrasodium EDTA | 64-02-8 | 1-5 | N.E. | N.E. | 4100mg/kg | N.D. |

This mixture does not contain components which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR, Part 372.

SECTION 3 - PHYSICAL DATA

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| Color: Yellow/Green | Boiling Point: 100°C (212°F) | Vapor Pressure: <30 mm of Hg | pH: 12.1 - 13.1 |
| Odor: Herbal | Freezing Point: 0°C (32°F) | Vapor Density (Air=1): <1 | 1% pH: 9.4 |
| Physical State: Liquid | Water/Oil Distribution: N.E. | Evaporation Rate (Water=1): N.E. | Specific Gravity: 1.02 gm/ml |
| Solubility in Water: Complete | Odor Threshold: N.E. | VOC Content: 42.2% | Weight per Gallon: 8.51 lbs./gal. |

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

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| Flash Point and Method: 139°F 54°C (C.C.) | Autoignition Temperature: N.A. | Extinguishing Media: Use water spray (fog), foam, dry chemicals, or CO2. |
| Flammable Limits: Combustible liquid. | LEL: N.E. UEL: N.E. | Special Fire Fighting Procedures: Use proper protective equipment. |
| Hazardous Combustion Products: N.A. | | Unusual Fire and Explosion Hazards: Avoid sources of ignition. |

SECTION 5 - REACTIVITY DATA

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| Chemical Stability: Stable. | Hazardous decomposition of By-Products: None known. |
| Incompatibility (Materials to Avoid): Strong oxidizers and sources of ignition. | Hazardous Polymerization: Will not occur. |

SECTION 6 - TOXICOLOGICAL PROPERTIES

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| Routes of Entry: Ingestion. Inhalation. Skin contact. Eye contact. | Toxicologically Synergistic Products: None known. |
| Sensitization: No. | Medical Conditions Aggravated by Exposure: None known. |
| EFFECTS OF OVEREXPOSURE (Acute and/or Chronic): | |
| Eyes: May cause severe irritation, redness and possible corneal injury. | Carcinogenic Effects: NO carcinogenic effect. |
| Skin: May cause severe irritation, redness, burns. | Mutagenic Effects: NO mutagenic effect. |
| Ingestion: May cause severe irritation or burning of gastrointestinal tract and possible mucosal injury. | Teratogenic Effects: NO teratogenic effect. |
| Inhalation: May irritate respiratory tract when used with inadequate ventilation. | Reproductive Toxicity: NO reproductive toxicity effect. |

SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

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| Respiratory Protection: None normally required with adequate ventilation. | Ventilation: Local Exhaust: Acceptable Mechanical: Recommended |
| Protective Gloves: Rubber/Neoprene. | Eye Protection: Splash goggles. |
| Protective Clothing and Equipment: As needed to prevent wetting of skin. | Work and Hygienic Practices: Wash thoroughly after handling. |
| Storage Requirements: Store in cool, dry area away from sources of ignition. Empty container retains vapor and product residue; do not puncture or weld on or near container. | Other Requirements: Keep out of reach of children. |
| Steps to be Taken if Material is Spilled or Released: Collect and reuse if possible. Ventilate area and remove all sources of ignition. Collect on inert material (sand, clay, etc.) and place into container for proper disposal. Do not allow runoff into public waterways. | |
| Waste Disposal: Dispose of as permitted by all federal, provincial, state and local regulatory authorities. | |

SECTION 8 - EMERGENCY FIRST AID PROCEDURES

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| FIRST AID - NOTES TO PHYSICIAN: |
| Eyes: Flush with a large amount of water for 15 minutes holding eyelids open. |
| Skin: Wash with mild soap and water. |
| Ingestion: Give 2-3 large glasses of water. Seek medical attention. |
| Inhalation: Remove to fresh air and rest. In all cases if symptoms persist, seek medical attention. |
| Note to Physician: No additional information. |

SECTION 9 - PREPARATION INFORMATION

Prepared By: Regulatory Affairs Department

Phone: 262-538-1122

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