

# Material Safety Data Sheet

# U.S. Department of Labor

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Occupational Safety and Health Administration  
(Non-Mandatory Form) Form Approved OMB No. 1218-0072

|   |   |
|---|---|
| IDENTITY <i>(As Used on Label and List)</i><br><b>HANSEL® STAIN</b> | Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that. |
|---|---|

## Section I

|   |  |
|---|--|
| Manufacturer's Name<br>Lide Laboratories, Inc.  | Emergency Telephone Number: 952-758-9760 or contact a local medical facility |
| Address <i>(Number, Street, City, State, and ZIP Code)</i><br>401 4 <sup>th</sup> AV SW | Telephone Number for Information: 952-758-9760                               |
| New Prague, MN 56071  | Date Prepared: 03/14/05  |
|   | Signature of Preparer <i>(optional)</i>                                      |

## Section II - Hazard Ingredients/Identity Information

| Hazardous Components (Specific Chemical Identity; Common Name(s))  | OSHA PEL | ACGIH TLV | Other Limits Recommended | % <i>(optional)</i> |
|--|----------|-----------|--------------------------|---------------------|
| The statements contained herein are offered as information only and are believed to be accurate and represent the best information currently available. However we make no warranty, expressed or implied, with respect to such information and assume no liability of any type resulting from its use. Users of the product should make their own investigations to determine the suitability of the information for their particular purposes. |          |           |                          |                     |
| Hazardous Ingredient (95%): Methanol (methyl alcohol, wood alcohol)<br>Formula: CH <sub>3</sub> OH    Chemical Family: Alcohols    CAS RN: 67-56-1    PEL/TLV/TWA: 200 ppm   |          |           |                          |                     |
| Other Ingredients (5%): Methylene Blue CAS 61-73-4, Eosin Y (Acid Red 87) CAS 17372-87-1, Glycerin (Glycerol) CAS 56-81-5, Distilled Water   |          |           |                          |                     |

## Section III - Physical/Chemical Characteristics

|   |                 |   |        |
|---|-----------------|---|--------|
| Boiling Point   | 64.5 °C         | Specific Gravity (H <sub>2</sub> O = 1) | 0.79   |
| Vapor Pressure (mm Hg.)   | 96 mm Hg @ 20°C | Melting Point                           | -98 °C |
| Vapor Density (AIR = 1)   | 1.1             | Evaporation Rate (Butyl Acetate = 1)    | 5.91   |
| Solubility in Water : Complete  |                 |   |        |
| Appearance and Odor: Colorless liquid with slight alcoholic odor as methanol.<br>Blue in color with slight alcoholic odor as HANSEL Stain |                 |   |        |

## Section IV - Fire and Explosion Hazard Data

|   |                  |         |        |
|---|------------------|---------|--------|
| Flash Point (Method Used): 12.2°C (TCC)   | Flammable Limits | LEL 6.7 | UEL 35 |
| Extinguishing Media: Use water spray, CO <sub>2</sub> , dry chemical or alcohol foam. Do not use a direct water steam.  |                  |         |        |
| Special Fire Fighting Procedures: Firefighters should wear self-contained breathing apparatuses and full protective clothing. Use water spray to cool exposed containers and disperse vapors.               |                  |         |        |
| Unusual Fire and Explosion Hazards: Extinguish all nearby sources of ignition. Methanol may burn with a flame that is invisible in daylight. Mixtures of water and as little as 21% methanol are flammable. |                  |         |        |

## Section V - Reactivity Data

|           |          |   |                               |
|-----------|----------|---|-------------------------------|
| Stability | Unstable |   | Conditions to Avoid           |
|           | Stable   | X | Heat, sparks, and open flames |

|  |                |   |                     |
|--|----------------|---|---------------------|
| Incompatibility ( <i>Materials to Avoid</i> ):<br>Strong oxidizing agents, aluminum, zinc and other metal that displaces hydrogen. |                |   |                     |
| Hazardous Decomposition or Byproducts  |                |   |                     |
| Hazardous Polymerization   | May Occur      |   | Conditions to Avoid |
|  | Will Not Occur | X | Unknown             |

### Section VI - Health Hazard Data

|   |             |                          |                    |
|---|-------------|--------------------------|--------------------|
| Route(s) of Entry: See below  | Inhalation? | Skin?                    | Ingestion?         |
| Health Hazards ( <i>Acute and Chronic</i> ) <b>TOXIC</b><br>INHALATION: Prolonged or repeated exposure or breathing very high concentrations of methanol may cause headaches, nausea, vomiting, dizziness, visual disturbances, intoxication, sleepiness, unconsciousness and death. Initial symptoms of inhalation may only be mild intoxication, but may become more severe after 12 to 18 hours. Toxic effects are exerted on the central nervous system, especially the optic nerve.<br>INGESTION: Swallowing 60-250 mL of methanol can be fatal. Swallowing lesser quantities can cause blindness, dizziness, headaches or nausea. Absorption of methanol is rapid but excretion is slow, resulting in delayed effects or compounding effects of repeated exposure.<br>EYE CONTACT: Methanol vapors will irritate the eyes. Liquid and mists will irritate and may burn the eyes.<br>SKIN CONTACT: Brief contact with methanol may dry the skin. Prolonged or repeated contact may irritate the skin, causing dermatitis. Methanol may be absorbed through the skin to produce systemic effects. As HANSEL Stain, skin may be stained. |             |                          |                    |
| Carcinogenicity: Unknown  | NTP? NO     | IARC Monographs? Unknown | OSHA Regulated? NO |
| Signs and Symptoms of Exposure: See Health Hazards above.   |             |                          |                    |
| Medical Conditions Generally Aggravated by Exposure: See Health Hazards above.  |             |                          |                    |
| Emergency and First Aid Procedures FOR OVEREXPOSURE BY:<br>SWALLOWING - If victim is conscious, give cups of water or milk and immediately induce vomiting.<br>GET IMMEDIATE MEDICAL ATTENTION.<br>INHALATION - Immediately remove victim to fresh air. If victim is not breathing give artificial respiration.<br>GET IMMEDIATE MEDICAL ATTENTION.<br>EYE CONTACT - Immediately flush affected area with plenty of cool water for at least 15 minutes lifting upper and lower eyelids. GET IMMEDIATE MEDICAL ATTENTION.<br>SKIN CONTACT- Immediately wash skin with soap and water. Get medical attention if irritation persists after washing.  |             |                          |                    |

### Section VII - Precautions for Safe Handling and Use

|   |
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| Steps to Be Taken in Case Material is Released or Spilled: <b>CAUTION Flammable liquid and vapors.</b><br>Avoid direct contact with product. Avoid direct inhalation and provide ventilation. Extinguish all ignition sources. Wear protective clothing, gloves, mouth and eye cover. For small leaks or spills wipe with disposal towels. For larger spills, use non-combustible, absorbent material for clean up. Respiratory protection may be warranted. Wash area with soap and water once absorbed. |
| Waste Disposal Method: Place residue in DOT approved waste containers. Dispose of materials in a manner compliant with Federal, State and local regulatory agencies.  |
| Precautions to Be taken in Handling and Storing: Store product at room temperature in original, sealed container. Protect from light, heat and flame.<br>CHEMICAL STORAGE CODES: HEALTH 3 FLAMMABILITY 3 REACTIVITY 0 PERSONAL PROTECTION 1   |
| Other Precautions: Provide adequate ventilation. Avoid contact with skin and eyes. Do not ingest.   |

### Section VIII - Control Measures

|  |                                    |         |  |
|--|------------------------------------|---------|--|
| Respiratory Protection ( <i>Specify Type</i> ) Self contained or air supplied breathing apparatus as warranted |                                    |         |  |
| Ventilation  | Local Exhaust: Yes                 | Special |  |
|  | Mechanical ( <i>General</i> ): Yes | Other   |  |
| Protective Gloves: Yes   | Eye Protection: Yes                |         |  |
| Other Protective Clothing or Equipment: Fume Hoods, Face shield may be necessary                               |                                    |         |  |
| Work/Hygienic Practices: Follow good laboratory practices, basic procedures and product instructions.          |                                    |         |  |

(Reproduced locally 07/03)

OSHA 174, Sept. 1985

\* U.S.G.P.O.: 1986 - 491 - 529/45775