



QUICK IDENTIFIER

# MATERIAL SAFETY DATA SHEET

| SECTION I - IDENTITY                                                                                     |  |                                                                      |  |
|----------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|--|
| MANUFACTURER'S NAME<br>Huntington Laboratories, Inc.                                                     |  | EMERGENCY TELEPHONE NO.<br>219/356-8100                              |  |
| ADDRESS (Number, Street, City, State, and Zip Code)<br>970 East Tipton Street, Huntington, Indiana 46750 |  |                                                                      |  |
| CHEMICAL NAME AND SYNONYMS<br>N/A                                                                        |  | TRADE NAME AND SYNONYMS<br>Turf Leader Northern Broadleaf Concentrat |  |
| CHEMICAL FAMILY<br>Weed Killer                                                                           |  | FORMULA<br>N/A                                                       |  |

| SECTION II - HAZARDOUS INGREDIENTS |                                                                   |   |             |
|------------------------------------|-------------------------------------------------------------------|---|-------------|
| CAS NO.                            | PRINCIPAL HAZARDOUS COMPONENT(S)                                  | % | TLV (Units) |
| 94-75-7                            | Dimethylamine Salt of 2,4-Dichlorophenoxyacetic acid              | 8 | N/A         |
| 93-65-2                            | Dimethylamine Salt of 2-(2-methyl-4-chlorophenoxy) propionic acid | 4 | N/A         |
| 1982-69-0                          | Dimethylamine Salt of dicamba (3,6-dichloro-o-anisic acid)        | 1 | N/A         |
|                                    |                                                                   |   |             |
|                                    |                                                                   |   |             |
|                                    |                                                                   |   |             |

| SECTION III - PHYSICAL DATA |                                   |                                         |      |
|-----------------------------|-----------------------------------|-----------------------------------------|------|
| BOILING POINT (°F.)         | 212                               | SPECIFIC GRAVITY (H <sub>2</sub> O = 1) | 1.03 |
| VAPOR PRESSURE (mm Hg.)     | N/A                               | PERCENT, VOLATILE BY VOLUME (%)         | 86   |
| VAPOR DENSITY (AIR = 1)     | N/A                               | EVAPORATION RATE (_____ = 1)            | N/A  |
| SOLUBILITY IN WATER         | Complete                          | REACTIVITY IN WATER                     | None |
| APPEARANCE AND ODOR         | Light amber liquid, phenolic odor | pH                                      | 8.0  |

| SECTION IV - FIRE AND EXPLOSION DATA      |                                  |       |       |
|-------------------------------------------|----------------------------------|-------|-------|
| FLASH POINT (Method used)<br>None         | FLAMMABLE LIMITS                 | LOWER | UPPER |
| EXTINGUISHING MEDIA<br>N/A                | AUTO-IGNITION TEMPERATURE<br>N/A |       |       |
| SPECIAL FIRE FIGHTING PROCEDURES<br>N/A   |                                  |       |       |
| UNUSUAL FIRE AND EXPLOSION HAZARDS<br>N/A |                                  |       |       |

| SECTION V - PHYSICAL HAZARDS                           |                |                     |                     |
|--------------------------------------------------------|----------------|---------------------|---------------------|
| STABILITY                                              | UNSTABLE       | CONDITIONS TO AVOID |                     |
|                                                        | STABLE         | X                   | N/A                 |
| INCOMPATIBILITY (Materials to avoid)<br>Acids          |                |                     |                     |
| HAZARDOUS DECOMPOSITION PRODUCTS<br>Carbon derivatives |                |                     |                     |
| HAZARDOUS POLYMERIZATION                               | MAY OCCUR      |                     | CONDITIONS TO AVOID |
|                                                        | WILL NOT OCCUR | X                   | N/A                 |

Turf Leader Northern Broadleaf  
Concentrate

### SECTION VI - HEALTH HAZARD DATA

|                                                                                                   |                                        |                                                                     |                                                                                         |
|---------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| THRESHOLD LIMIT VALUE<br><u>N/A</u>                                                               |                                        |                                                                     |                                                                                         |
| Effects of Overexposure                                                                           |                                        |                                                                     |                                                                                         |
| 1. Inhalation <u>Should not cause respiratory irritation.</u>                                     |                                        |                                                                     |                                                                                         |
| 2. Eyes <u>May cause irritation.</u>                                                              |                                        |                                                                     |                                                                                         |
| 3. Skin <u>May cause irritation.</u>                                                              |                                        |                                                                     |                                                                                         |
| 4. Ingestion <u>May be harmful if swallowed.</u>                                                  |                                        |                                                                     |                                                                                         |
| Chemical Listed as Carcinogen or Potential Carcinogen                                             | National Toxicology Program            | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | I.A.R.C. Monographs Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| OSHA Permissible Exposure Limit <u>N/A</u>                                                        | ACGIH Threshold Limit Value <u>N/A</u> | Other Exposure Limit Used <u>N/A</u>                                |                                                                                         |
| Emergency and First Aid Procedures                                                                |                                        |                                                                     |                                                                                         |
| 1. Inhalation <u>Move to fresh air.</u>                                                           |                                        |                                                                     |                                                                                         |
| 2. Eyes <u>Flush with flowing water for 15 minutes. If irritation persists, call a physician.</u> |                                        |                                                                     |                                                                                         |
| 3. Skin <u>Flush with flowing water.</u>                                                          |                                        |                                                                     |                                                                                         |
| 4. Ingestion <u>Drink water or milk.</u>                                                          |                                        |                                                                     |                                                                                         |

### SECTION VII - SPILL OR LEAK PROCEDURES

|                                                           |
|-----------------------------------------------------------|
| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED |
| <u>Flush with water. Mop or absorb large quantities.</u>  |
|                                                           |
| WASTE DISPOSAL METHOD                                     |
| <u>Large quantities to landfill</u>                       |
|                                                           |
|                                                           |

### SECTION VII - SPECIAL PROTECTION INFORMATION

|                                                              |                                                      |                                                             |
|--------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|
| RESPIRATORY PROTECTION (Specify type)                        |                                                      |                                                             |
| <u>None required.</u>                                        |                                                      |                                                             |
| VENTILATION                                                  | LOCAL EXHAUST<br><input checked="" type="checkbox"/> | SPECIAL                                                     |
|                                                              | MECHANICAL (General)                                 | OTHER                                                       |
| PROTECTIVE GLOVES<br><u>Rubber when handling concentrate</u> |                                                      | EYE PROTECTION<br><u>Goggles when handling concentrate.</u> |
| OTHER PROTECTIVE EQUIPMENT<br><u>None required.</u>          |                                                      |                                                             |

### SECTION IX - SPECIAL PRECAUTIONS

|                                                                                    |
|------------------------------------------------------------------------------------|
| PRECAUTION TO BE TAKEN IN HANDLING AND STORING                                     |
| <u>Avoid contamination of food or feed stuffs. Do not apply directly to water.</u> |
| <u>Keep from freezing. Store in original container in a locked storage area</u>    |
| OTHER PRECAUTIONS                                                                  |
| <u>inaccessible to children. See product label. Do not reuse empty container.</u>  |

Prepared by Clem L. Harris Title Technical Service Manager  
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