

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: PRODUCT IDENTIFICATION AND USE

Product Name: D.T. Developer - 5 Liter
Manufacturer: GraphLine, Inc.
Manufacturer's address: 5701 N.W. 94th Avenue, Tamarac, FL 33321
Telephone number for information: 1-800-998-3200
Telephone number for emergencies: Chemtrec - 1-800-424-9300
Revision: 4/14/94

SECTION 2: COMPONENT INFORMATION

| <u>CAS#</u> | <u>INGREDIENTS</u> | <u>%</u> |
|-------------|----------------------|----------|
| 109-83-1 | 2-METHYLAMINOETHANOL | 1-5 |
| 123-31-9 | HYDROQUINONE | 1-5 |
| 7732-18-5 | WATER | 80-90 |
| 7757-83-7 | SODIUM SULFITE | 5-10 |
| 7772-98-7 | SODIUM THIOSULFATE | 1-5 |

EXPOSURE LIMITS

| | <u>OSHA</u> | | <u>ACGIH</u> | | <u>CANADA</u> | |
|----------------------|-------------|-------------|--------------|-------------|---------------|-------------|
| | <u>TWA</u> | <u>STEL</u> | <u>TWA</u> | <u>STEL</u> | <u>TWA</u> | <u>STEL</u> |
| 2-METHYLAMINOETHANOL | None | None | None | None | None | None |
| HYDROQUINONE | 2 mg/m3 | None | 2 mg/m3 | None | 2 mg/m3 | 4 mg/m3 |
| WATER | None | None | None | None | None | None |
| SODIUM SULFITE | None | None | None | None | None | None |
| SODIUM THIOSULFATE | None | None | None | None | None | None |

Source of Exposure Limit Data:

OSHA: Occupational Safety and Health Administration
 ACGIH: American Conference of Governmental Industrial Hygienists
 CANADA: Province of Alberta's Occupational and Health and Safety Act

ADDITIONAL EXPOSURE INFORMATION

| <u>CAS NUMBER</u> (ppm) | <u>SKIN DESIGNATION*</u> | | | <u>CARCINOGENS</u> | | | <u>PRIMARY HAZARD</u> | <u>IDLH</u> |
|----------------------------|--------------------------|--------------|---------------|--------------------|------------|-------------|-----------------------|-------------|
| | <u>OSHA</u> | <u>ACGIH</u> | <u>CANADA</u> | <u>IARC</u> | <u>NTP</u> | <u>OSHA</u> | | |
| 109-83-1 | No | No | No | No | No | No | Not classified | None |
| 123-31-9 | No | No | No | No | No | No | Not classified | |
| | Unknown | | | | | | | |
| 7732-18-5 | No | No | No | No | No | No | Not classified | None |
| 7757-83-7 | No | No | No | No | No | No | Not classified | None |
| 7772-98-7 | No | No | No | No | No | No | Not classified | None |

* For substances designated as a "Skin" hazard, protective measures are recommended to prevent or reduce skin absorption. These measures may include the use of gloves, aprons, goggles or other equipment, as well as engineering controls or work practices.

Hydroquinone - LdLo. (human) 29mg/kg.

SECTION 3: HAZARDS IDENTIFICATION

Eyes Contact: May cause irritation and burning.
Skin Contact: May cause irritation. May cause allergic reaction in some susceptible individuals.
Inhalation: Normally no problem, but inhalation of mist could cause respiratory irritation.
Ingestion: May cause irritation or burning of the mucous membranes or digestive tract.
H.M.I.S. CODES: Health: 1 Fire: 0 Reactivity: 0 Protection: D

SECTION 4: FIRST AID MEASURES

Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Contact physician immediately. (Preferably an ophthalmologist).

Skin Contact:

Immediately flush with water for at least 15 minutes. Wash the contaminated skin with soap and water. If irritation continues, call a physician. If clothing comes in contact with this product, the clothing should be laundered before re-use.

SECTION 4: FIRST AID MEASURES (CONTINUED)

Inhalation: Remove victim to fresh air, if not breathing, have certified person administer first aid/ CPR. Contact physician immediately.

Ingestion: Administer 2-4 glasses milk or water. Contact physician or poison control center immediately.

SECTION 5: FIRE FIGHTING MEASURES

Flash point (F): None **Flammability:** LEL - N/A UEL - N/A

Extinguishing Media: Any applicable to primary cause of fire.

Special fire fighting procedures: Evacuate personnel to safe area. Keep personnel removed and upwind of fire. Wear NIOSH approved self-contained breathing apparatus.

Unusual fire and explosion hazards: When heated to decomposition, emission of toxic fumes of SO₂ is possible.

National Fire Protection Assoc. Codes: Health: 1 Fire: 0 Reactivity: 0 Special: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill Response: Dike spill and soak up with sand or a commercially available alkaline spill kit. Sweep up absorbant and place in a hazardous waste container. Prevent liquid from entering sewers, waterways or low areas. Spill may be neutralized with powdered citric acid.

SECTION 7: HANDLING AND STORAGE

Store in well ventilated area. Keep container tightly closed. Remove and wash contaminated clothing immediately. Do not store near heat. Do not store food, drink, or tobacco in area where they may become contaminated with this material.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Avoid eye contact. Avoid skin contact. Local exhaust recommended. Avoid use in unventilated area. Always control airborne levels below the exposure guidelines. - RESPIRATORY PROTECTION - None needed when working with mixtures and normal room ventilation. (10 air changes per hour). Splash protection required for eyes, e.g., eye glasses with side shields or goggles. For skin protection use chemical resistant gloves and aprons.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------------------|-------------------------------|------------------------------------|--------------------|
| Appearance: | Clear to light yellow liquid. | Odor: | Slight fishy odor. |
| Boiling point (F): | 221 | Volatile Organic Compounds: | N/D |
| Melting point: | N/A | Vapor pressure: | N/D |
| Percent volatile by volume: | N/D | Vapor density: | N/D |
| Evaporation rate (water=1): | N/D | Solubility in water: | Complete |
| Specific gravity (water=1): | 1.069 | pH: | 10.93 |

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur

Incompatibility (materials to avoid): Strong acids and oxidizers

Hazardous decomposition products: Oxides of sulfur and nitrogen, CO₂, carbon monoxide

SECTION 11: DISPOSAL CONSIDERATIONS

Remove free liquid and dispose of in accordance with Federal, State, and local regulations.

SECTION 12: TRANSPORTATION INFORMATION

Shipping Name: Not regulated - Chemical NOI

ID Number: N/A

Hazard Class: N/A

Packing Group: N/A

Label: N/A

*Reference: CFR 49, Table 172.102 (highway)

SECTION 13: REGULATORY INFORMATION

| <u>CAS Number</u> | <u>CERCLA</u> <u>FLA.</u> | <u>SARA-EHS</u> | <u>SARA-313</u> | <u>RCRA</u> | <u>CAL-PROP-65</u> | <u>N.J.</u> |
|-------------------|------------------------------|-----------------|-----------------|-------------|--------------------|-------------|
| 109-83-1 | No Yes | No | No | No | No | No |
| 123-31-6 | Yes Yes | Yes | Yes | No | No | Yes |
| 7732-18-5 | No No | No | No | No | No | No |
| 7757-83-7 | No No | No | No | No | No | No |
| 7772-98-7 | No No | No | No | No | No | No |

***Specified CAS Number references from these regulatory tables:**

CERCLA: 40 CFR. Table 302.4
Reproductive
SARA-EHS: 40 CFR. 355 Appendices A-B
SARA-313: 40 CFR. section 372.65
RCRA: 40 CFR. section 261.3
CAL-PROP 65: California Proposition 65, Developmental and
New Jersey Right to Know
Florida Right to Know

SECTION 14: OTHER INFORMATION

Comments: None

Abbreviations: N/D = Not Determined N/A = Not Applicable N/E = Not Established

The data in this Material Safety Data form relates to the specific material designated herein and to the standard use of same in combination with other materials or processes. The hazards covered are believed to be those most likely to occur in the reasonable, contemplated, or ordinary use of these chemicals. No warranty is made or implied in respect of other hazards which may occur as a result of unreasonable, abnormal, or unusual usage, or non-standard application of these materials. The information accumulated herein is believed to be accurate, but GraphLine Inc. expressly denies any warranty to such effect. Customers or recipients are advised to confirm, in advance that the information is current, applicable and suitable to their circumstances. This information is furnished as a service only.

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