

# MATERIAL SAFETY DATA SHEET

## FORMULA 1 DEVELOPER & REPLENISHER

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Synergy Graphics Phone Number: 1-800-521-4042 Emergency Phone: 1-800-255-3924  
 Product Name: FORMULA 1 DEVELOPER Product Number: 728010, 728200, 728210,  
 728290, 728292, 728323, 728332  
 Prepared By: MSDS Author 3 Date Prepared: 05/02/2002

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OHSA PEL	ACGIH TLV	Weight %
HYDROQUINONE	123-31-9	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	1-3
SODIUM SULFITE	7681-57-4	N.E.	N.E.	10-15
POTASSIUM CARBONATE	584-08-7	N.E.	N.E.	5-10
METHANOL	67-56-1	260 mg/m <sup>3</sup>	262 mg/m <sup>3</sup> (skin)	3-5
TRISODIUM HEDTA	MIXTURE	N.E.	N.E.	< 1

### 3. HAZARDOUS IDENTIFICATION

#### POTENTIAL HEALTH EFFECTS

Eye Contact: May cause severe irritation.

Inhalation: Low hazard for recommended handling. In contact with strong acids or if heated may liberate sulfur dioxide gas which is irritating. Some asthmatics or hypersensitive individuals may experience difficult breathing.

Ingestion: Harmful if swallowed. May cause irritation or corrosion to the gastrointestinal tract. Some asthmatics and sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, diarrhea.

Skin Contact: May cause allergic skin reaction. Skin inflammation can include itching, scaling, reddening. May be harmful if absorbed through the skin.

Signs And Symptoms Of Exposure: Eye irritation, respiratory irritation, dermatitis, difficulty breathing, abdominal pain, skin irritation, mucus membrane irritation, coughing, nausea, diarrhea.

### 4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes. Get immediate medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: If swallowed, give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Skin Contact: Flush skin with plenty of water and wash with a non-alkaline skin cleaner. Wash contaminated clothes before reuse. Get medical attention if irritation develops.

Aggravated Medical Conditions: Allergies, chronic asthma, and individuals with sulfur sensitivities may experience chest tightness and other symptoms that can be exacerbated by fumes from this product.

Supplemental Health Information: None of the components in this product is listed by IARC, NTP, or OSHA as carcinogen.

### 5. FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES

Flash Point: Not flammable

Flash Point Method: Not applicable

Auto ignition: Not applicable

LEL: Not applicable

UEL: Not applicable

Extinguishing Media: For concentrate: Use agent appropriate for surrounding fire. For working solution: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

Special Fire-Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

Unusual Fire And Explosion Hazards: Fire or excessive heat may cause production of hazardous decomposition products.

Combustion Products: Oxides of carbon and sulfur.

## 6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Spilled Or Released: Review fire and explosion hazards and safety precautions before proceeding with cleanup. Use appropriate personal protective equipment. Avoid contact with skin and eyes. Stop the spillage. Dike the spill. Prevent liquid from entering sewers, waterways or low areas. Absorb spillage in inert material. Soak up with sawdust, sand, or other absorbent material. Remove non-usable solid material and/or contaminated soil for disposal in an approved and permitted landfill. Discharge to sewer requires approval of permitting authority and may require pre-treatment. Contaminated surfaces should be cleaned using water.

## 7. HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storage: Store in a cool, dry, well ventilated area. Keep containers closed. Do not store with incompatible materials. Do not store or consume food, drink, or tobacco where they may become contaminated with this material. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Use with adequate ventilation. Wash thoroughly after handling.

Other Precautions: All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Do not reuse containers. Triple rinse before disposal. Dispose of in a licensed facility. Recommended crushing or other means to prevent re-use.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: When this product is used in the intended way, no respiratory protection is anticipated to be necessary. A respirator should be worn if hazardous decomposition products are likely to be or have been released. Respirator type: Acid gas.

Ventilation: Good ventilation of 10 room volumes per hour. Ventilation rates should match conditions of use.

Protective Gloves: Impervious gloves recommended.

Eye Protection: Safety glasses with side shields (or goggles).

Other Protective Clothing or Equipment: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

Work/Hygienic Practices: Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Guidelines: See Section 2.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: Light straw color; no odor.

Boiling Point: >100° C

Specific Gravity: 1.25 g/ml

Evaporation Rate: N.E.

Vapor Pressure: N.E.

Melting Point: Not applicable

Vapor Density: (air = 1): 0.6

Solubility In Water: Complete

Ph: 10.57

Freezing Point: N.E.

Percent Volatile: 70.09

Molecular Weight: Mixture

Pounds Per Gallon: 10.45

V.O.C. is 48.89 g/L or 3.9% or 0.41 lb./gal.

## 10. STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Contact with acids and metals such as aluminum, magnesium, zinc, and tin.

Incompatibility: Strong acids and oxidizers

Hazardous Decomposition Or By Products: May produce oxides of carbon and sulfur.

Hazardous Polymerization: Will Not Occur

Conditions To Avoid: None

## 11. TOXICOLOGICAL INFORMATION

## 12. ECOLOGICAL INFORMATION

## 13. DISPOSAL CONSIDERATIONS

The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Consult state or local regulatory authorities before flushing to sewer with large amounts of water.

## 14. TRANSPORT INFORMATION

DOT Class: NOT REGULATED

Hazard Class: NONE

UN No.: NOT APPLICABLE

Packing Group:

Guide No:

Ship Name: PHOTOGRAPHIC DEVELOPER

## 15. REGULATORY INFORMATION

TSCA: All ingredients in this finished product are listed on the EPA TSCA INVENTORY.

SARA TITLE III: Hydroquinone and Methanol are listed under Sara Title III Section 313.

CALIF. PROP. 65: Product contains a mixture, which includes less than .0004 % Trisodium NTA. The State of California's Safe Drinking Water and Toxic Enforcement Act of 1986, or Proposition 65 requires the following information. This regulation does not address de minimus levels; therefore, even trace amounts of the chemicals included on Proposition 65's list of chemicals known to the State of California to cause cancer or reproductive toxicity must be noted with the "Safe Harbor" wording. WARNING: This product contains Trisodium NTA, - known to the State of California to cause cancer, birth defects or other reproductive harm.

CARCINOGENICITY: NONE OF THE COMPONENTS IN THIS CHEMICAL IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

## 16. OTHER INFORMATION (HMIS)

Health: 2

Flammability: 0

Reactivity: 0

Protective: C

OTHER ADDITIONAL INFORMATION: The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for the injuries from the use of the product described herein.