

# SAFETY DATA SHEET

## 1. Identification

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**Name of the product:** GRAND TECHNOLOGY MF-100

**Recommended use:** Floor Stripper Concentrate

**Manufacturer:**

Grand Technology, Inc.

P.O. Box 87

Marlboro, NJ 07746

**Product Technical Information:** 1-732-786-9112

**Medical/Handling Emergency:** INFOTRAC 1-800-535-5053

**Transportation Emergency:** 1-877-777-7244

## 2. Hazard(s) identification

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**GHS Classification:** Classification of this mixture in accordance with paragraph (d) of §1910.1200.  
Skin Corrosion/Irritation - Category 1C  
Eye Damage/Eye Irritation - Category 1  
STOT-SE - Category 3 (Respiratory Irritation)

**Label elements:**

Symbol:



Signal word: **DANGER**

Hazard statements: Causes severe skin burns and serious eye damage.

May cause respiratory irritation.

Precautionary statements:

Do not breathe mist/vapors/spray.

Wash hands, face and any skin contact thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Use only in a well-ventilated area.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Immediately call a POISON CENTER or doctor/physician.**

**Storage:** Store locked up in a well-ventilated place.

Keep container tightly closed.

**Disposal:** Dispose of contents/container to an approved disposal facility.

**Other Hazards:** Harmful if swallowed.

**Other Information:** Keep out of reach of children

### 3. Composition / Information on ingredients

CHEMICAL NAME	CAS NUMBER	WEIGHT %
Benzyl alcohol	100-51-6	50 -60%
Monoethanolamine	141-43-5	15 – 25%
Ethylene glycol monobutyl ether	111-76-2	10 - 20%
Surfactant	68439-46-3	1 – 5%
Surfactant	68584-22-5	1 – 5%
Surfactant	1356964-77-6	1 – 5%

### 4. First aid measures

**Inhalation:**

Remove person to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance immediately

**Skin contact:**

Remove contaminated clothing and wash before reuse. Wash contaminated area with soap and water for 15-20 minutes. Seek medical attention immediately.

**Eye contact:**

Immediately flush eyes with water for at least 15 to 20 minutes, keeping eyelids

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open. Seek medical attention immediately.

## **Ingestion:**

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to a person who is unconscious or convulsing. If vomiting occurs, keep head below hips to reduce risk of aspiration. Probable mucosal damage may contraindicate the use of gastric lavage.

## ***5. Firefighting measures***

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**Suitable extinguishing media:** Use water spray, dry chemical, carbon dioxide or foam extinguishing agents. In case of fire, keep containers cooled with water spray.

**Specific hazards in case of fire:** May decompose upon heating to produce oxides of carbon.

**Special protective equipment and precaution for fire fighters:** For fires in enclosed areas, wear self-contained breathing apparatus. Do not inhale combustion gases.

## ***6. Accidental release measures***

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### **Personal precautions:**

Prevent contact with skin, eyes or clothing. Use personal protective equipment as required.

### **Environmental precautions:**

Do not release to the environment or water source.

### **Methods and materials for containment and cleaning up:**

Halt spill at source and contain or dike spill with sand or inert absorbent material. Transfer any liquid to containers for recovery or disposal. Collect used absorbent into drums for disposal in accordance with all applicable local and national regulations.

## ***7. Handling and storage***

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### **Precautions for safe handling:**

Avoid contact with skin and eyes; wash thoroughly after handling. Observe good industrial hygiene practices.

### **Conditions for safe storage, including incompatibilities:**

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Store locked up in a dry, well ventilated location at room temperature. Keep container closed and maintain all original markings and labels. Keep out of reach of children. Avoid acids and oxidizers.

### 8. Exposure controls / personal protection

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#### Exposure Limits:

Ingredient(s)	CAS#	ACGIH	OSHA
Monoethanolamine	141-43-5	3 ppm	3 ppm
Ethylene glycol monobutyl ether	111-76-2	20 ppm	50 ppm

#### Ventilation:

Proper ventilation in accordance with good industrial hygiene should be provided.

#### Respiratory protection:

None required in under normal conditions of use.

#### Eye protection:

Wear approved safety glasses with side shields. Wear goggles and face protection wear splashing is possible.

#### Skin protection:

Wear chemical resistant gloves.

**Work hygienic practices:** Cleanse skin thoroughly after contact, before breaks and meals and at the end of the work shift.

### 9. Physical and chemical properties

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**Physical state:** Liquid

**Color:** Clear to pale yellow

**Odor:** Amine

**pH:** Not determined

**Freezing Point:** Not determined

**Initial boiling point:** Not determined

**Flash point:** >200 °F

**Evaporation rate (Water=1):** Slower than water

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**Upper flammability limit:** No data available

**Lower flammability limit:** No data available

**Vapor pressure:** Similar to water

**Vapor density (Water Vapor= 1):** Similar to water

**Specific gravity:** 1.02 to 1.03

**Solubility:** Miscible in water

**Partition coefficient:** No data available

**Autoignition temperature:** No data available

**Decomposition temperature:** No data available

**Volatile Organic Compounds (VOC):** Not determined

**Viscosity:** Similar to water

### 10. Stability and reactivity

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**Chemical stability:** Stable.

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Temperatures 130 °F or below 32 °F.

**Materials to avoid:** Acids and oxidizing agents

**Hazardous decomposition products:** Thermal decomposition may produce oxides of carbon and nitrogen.

### 11. Toxicological information

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**Likely routes of exposure:** Eyes, skin, ingestion.

**Symptoms of exposure:**

**Eye contact:** Causes severe eye burns. Causes serious eye damage.

**Skin contact:** Causes severe skin burns.

**Inhalation:** May cause irritation to the respiratory system.

**Ingestion:** Causes digestive tract burns. Harmful if swallowed.

**Immediate, delayed, chronic effects:**

**Product information:** No data available

**Target organ effects:** Eyes, skin, GI tract

**Carcinogenicity:**

This product does not contain a listed carcinogen from NTP, ACGIH or IARC.

**Irritation:**

This product can be expected to be an eye irritant. Not a skin sensitizer.

**Component acute toxicity information:**

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CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Monoethanolamine 141-43-5	1515 mg/kg (rat)	2,504 mg/kg (rabbit)	> 1.3 mg/L, 6 h (rat)
Ethylene glycol monobutyl ether 111-76-2	273 mg/kg (rat)	No data available	No data available
Surfactant 68439-46-3	1,1000 - 2000 mg/kg (rat)	>4,000 mg/kg (rat)	No data available

## 12. Ecological information

### Ecotoxicity:

CHEMICAL NAME	ALGAE/AQUATIC PLANTS	FISH	MICRO-ORGANISMS	INVERTEBRATES
Monoethanol amine 141-43-5	No data available	LC50 <i>Carrassius auratus</i> : 170 mg/l Exposure time: 96 h	No data available	EC50 Water flea: 65 mg/l Exposure time: 48 h
Ethylene glycol monobutyl ether 111-76-2	EC50 (Algae): 1,840 mg/l Exposure time: 72 h	LC50 <i>Oncorhynchus mykiss</i> : 1,474 mg/l Exposure time: 96 h	No data available	EC50 Water flea: 1,550 mg/l Exposure time: 48 h
Surfactant 68439-46-3	No data available	LC50 <i>Pimephales promelas</i> : 11 mg/l Exposure time: 96 h	No data available	EC50 Water flea: 12 mg/l Exposure time: 48 h
Surfactant 68584-22-5	No data available	LC50 Fish: 1 – 10 mg/l Exposure time: 96 h	No data available	EC50 Water flea: 6.83 mg/l Exposure time: 48 h

**Persistence and degradability:** Harmful to aquatic life. Expected to degrade rapidly in air.

**Bioaccumulation:** No data available but expected not to bioaccumulate based on ingredients.

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## 13. Disposal considerations

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**Disposal instructions:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazardous waste code:** D002

**Waste from residues / unused products:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging:** Rinse container promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill.

## 14. Transport information

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**U.S. Department of Transportation Proper Shipping Name:** UN2491, ETHANOLAMINE SOLUTION, 8, PG III

## 15. Regulatory information

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**Toxic Substances Control Act: (USA):**

All of the materials in this product are listed or exempt.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

No

**SARA 313 (TRI reporting)**

Ethylene glycol monobutyl ether 111-76-2

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## California Proposition 65

This product does not contain any Proposition 65 chemicals.

### 16. Other information

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#### HMIS HAZARD RATING INFORMATION:

HEALTH: 3    FIRE: 1    REACTIVITY: 0    SPECIAL: D

4=Extreme  
3=High  
2=Moderate  
1=Slight  
0=Insignificant

#### HMIS PROTECTION:



Face  
Shield



Gloves



Protective  
Apron

**MSDS Preparation date:** March 10, 2015

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