

## I. MANUFACTURER'S NAME

**Green Catalysts, Inc.**

**Emergency Tel No.**

**Address:**

(201) 506-9109

55 Chipper Drive  
Kendall Park, NJ 08824  
Tel: (201) 506-9109

Chemical Name & Synonyms	SODIUM METHYLATE
Trade Name & Synonymms	SODIUM METHOXIDE SOLUTION
Formula	CH <sub>3</sub> ONa
CAS No.	124-41-4
Chemical Family	SODIUM ALKYLATES

## II. HAZARDOUS INGREDIENTS

<i>Materials or Components</i>	<i>%</i>	<i>Hazard Data (TLV, LD<sub>50</sub>, LC<sub>50</sub>, etc.)</i>
Paints, Preservatives & Solvents	-	N/A
Alloys & Metallic Coatings	-	N/A
Hazardous Mixtures of other liquids, solids, or gases	-	Solution in Methanol

## III. PHYSICAL DATA

Boiling Point (°C)	87°C for 25% Solution
Vapor Pressure	46
Vapor Density (Air=1)	Not Established
Solubility in Water	Reacts, highly soluble
Melting Range	N/A
Specific Gravity	0.94-0.96
Appearance & Odor	White to pale yellow colored, clear solution with methanolic caustic odor
Present Volatile, by Vol.(%)	71-75
Evaporation Rate	N/A
pH of 0.5% Aq.Soln.	14

#### IV. FIRE & EXPLOSION HAZARD DATA

Flash Point	29°C
Ignition Temp. (Dust)	N/A
Extinguishing Media	Co <sub>2</sub> /Dry Chemical Powder
Unusual Fire & Explosion Hazards	Avoid contact with moisture
Method Used	Closed Cup
Flammable Limits(%V/V)	Lower-5.6 Upper-26.6
Special Fire-fighting procedures	None Required

#### V. REACTIVITY DATA

Stability	Stable under selective conditions
Incompatibility (materials to avoid)	Water/O <sub>2</sub> /CO <sub>2</sub> /Acids
Hazardous Decomposition Products	NaOH and Methanol
Hazardous Polymerization	Will not occur
Conditions to avoid	Exposure to high temp/Water/O <sub>2</sub> /CO <sub>2</sub>
Conditions to avoid	N/A

#### VI. TOXICITY IDENTIFICATION

Oral	Caustic Burns
Dermal-Acute	Causes Burning
Eye	Causes burning and redness, can cause visual impairment
Carcinogenicity	Not Reported
Parenteral	Toxic
Chronic	Causes Burning
Inhalation	Irritant
Lethal Dose	30 ml+

#### VII. HEALTH HAZARD INFORMATION

EFFECTS OF EXPOSURE	
Oral Ingestion	Headache, nausea, burning sensation, convulsions and death by poisoning
Eye Contact	Burning sensation, can lead to blindness and poisoning
Skin Contact	Burning sensation, can lead to poisoning
Inhalation	Irritation, burning sensation, pneumonitis, poisoning

**EMERGENCY FIRST AID**

Oral Ingestion	Wash mouth thoroughly; drink plenty of water; seek medical advice
Eye Contact	Flush eye with plenty of water; seek medical attention, if irritation persists
Skin Contact	Wash contacted area with water; remove contaminated clothing & launder before re-use
Inhalation	Wash externally affected part; seek source of fresh air

**VIII. SPILL OR LEAK PROCEDURES**
**Steps to be taken in case material is released or spilled:**

Remove by sand and shovel into recovery drums. Wash area with dilute Acetic Acid to remove final traces.

**Waste Disposal Method**

(Comply with applicable Federal / State / Local Regulations): Consider incineration.

**IX. SPECIAL PROTECTION INFORMATION**

Respiratory protection	Mask (Alkali-resistant) or SCBA
Ventilation	Local Exhaust - Normal ventilator; Special - Flameproof; Mechanical - general; Others - not needed
Protective Gloves	Rubber
Eye Protection	Safety Glasses
Other Protective Equipment	Apron, Safety Shoes

**X. SPECIAL PRECAUTIONS**
**Precautions to be taken in Handling & Storing:**

Store and handle in MS Tanks or Barrels which are designed to minimize leakage. Avoid entry of moisture and air; keep away from source of heat and naked flames; Handle under dry N2 only.

**Other Precautions:**

Explosion - proof equipment recommended for use with solution.

**IMPORTANT NOTE (DISCLAIMER)**

*This MSDS is based on a limited review of literature and standard toxicology handbooks. This information is without warrant of any kind; it may be used only as a supplement to literature or information already in your possession concerning this product. The determination of whether and under what conditions the product should be used by your employees, is yours only to make.*