Section 1 – PRODUCT AND COMPANY INFORMATION

Product Name: Chemical Stuff  
Synonyms: Methyltoxy Solution  
CAS Number: 00-00-0

Product Use: Organic Synthesis

Manufacturer: My Company

Address: My Street, Mytown, TX 00000  
Phone: 713-000-000

Transportation Emergency Number: CHEMTREC: 800-424-9300

Section 2 – HAZARDS IDENTIFICATION

GHS Classification:

<table>
<thead>
<tr>
<th>Health</th>
<th>Environmental</th>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity – Category 2 (inhalation), Category 3 (oral/dermal)</td>
<td>Aquatic Toxicity – Acute 2</td>
<td>Flammable Liquid – Category 2</td>
</tr>
<tr>
<td>Eye Corrosion – Category 1</td>
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<tr>
<td>Skin Corrosion – Category 1</td>
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<td>Skin Sensitization – Category 1</td>
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<tr>
<td>Mutagenicity – Category</td>
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<tr>
<td>2Carcinogenicity – Category 1B</td>
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<tr>
<td>Reproductive/Developmental – Category 2</td>
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<tr>
<td>Target Organ Toxicity (Repeated) –</td>
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<tr>
<td>Category 2</td>
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</tbody>
</table>

GHS Label(s)

Hazard Statements

DANGER! Highly Flammable Liquid and Vapor. Fatal if inhaled. Causes severe skin burns and eye damage. May cause allergic skin reaction. Toxic if swallowed and in contact with skin. May cause cancer. Suspected of damaging the unborn child. Suspected of causing genetic defects. May cause damage to cardiovascular, respiratory, nervous, and gastrointestinal systems and liver and blood through prolonged or repeated exposure. Toxic to aquatic life.

Precautionary Statements

Do not eat, drink or use tobacco when using this prod Do not breathe mist/vapors. Keep container tightly closed. Keep away from heat/sparks/open flame. - No smoking Wear respiratory protection, protective gloves and eye/face Use only in a well-ventilated area. Take precautionary measures against static discharge Use only non-sparking tools. Store container tightly closed in cool/well-ventilated p Wash thoroughly after handling.

Section 3 – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Weight%</th>
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<tbody>
<tr>
<td>Methyltoxy</td>
<td>000-00-0</td>
<td>80</td>
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</tbody>
</table>

(See Section 8 for Exposure Limits)
Section 4 – FIRST AID MEASURES

Eye: 
**Eye irritation.** Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin:  
Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention. Wash contaminated clothing before reuse. **Inhalation:** Nasal irritation, headache, dizziness, nausea, vomiting, heart palpitations, breathing difficulty, cyanosis, tremors, weakness, red flushing of face, irritability. Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

**Ingestion:** Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.

Section 5 – FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use dry chemical, foam, or carbon dioxide to extinguish fire. Water may be ineffective but should be used to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and to flush them away from sources of ignition.

**Fire Fighting Procedures:** Do not flush down sewers or other drainage systems. Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

**Unusual Fire and Explosion Hazards:** Dangerous when exposed to heat or flame. Will form flammable or explosive mixtures with air at room temperature. Vapor or gas may spread to distant ignition sources and flash back. Vapors or gas may accumulate in low areas. Runoff to sewer may cause fire or explosion hazard. Containers may explode in heat of fire. Vapors may concentrate in confined areas. Liquid will float and may reignite on the surface of water.

**Combustion Products:** Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include oxides of carbon and nitrogen.

Section 6 – ACCIDENTAL RELEASE MEASURES

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. (Also see Section 8).

Vapor protective clothing should be worn for spills and leaks. Shut off ignition sources; no flares, smoking or flames in hazard area. Small spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large spills: Dike far ahead of liquid spill for later disposal.

Do not flush to sewer or waterways. Prevent release to the environment if possible. Refer to Section 15 for spill/release reporting information.

Section 7 – HANDLING AND STORAGE

**Handling**

Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use. Destroy contaminated belts and shoes and other items that cannot be decontaminated.

Keep away from heat and flame. Keep operating temperatures below ignition temperatures at all times. Use non-sparking tools.
Storage
Store in tightly closed containers in cool, dry, well-ventilated area away from heat, sources of ignition and incompatibles. Ground lines and equipment used during transfer to reduce the possibility of static spark-initiated fire or explosion. Store at ambient or lower temperature. Store out of direct sunlight. Keep containers tightly closed and upright when not in use. Protect against physical damage.
Empty containers may contain toxic, flammable and explosive residue or vapors. Do not cut, grind, drill, or weld on or near containers unless precautions are taken against these hazards.

Section 8 – EXPOSURE CONTROLS – PERSONAL PROTECTION

Exposure Limits:
Component, Methylthoxy – OSHA PEL (8-hourTWA): 3 ppm (skin) - STEL: C 15 ppm (15 min).

Engineering Controls: Local exhaust ventilation may be necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces. Use explosion-proof ventilation equipment.

Personal Protective Equipment (PPE) Eye Protection: Wear chemical safety goggles and face shield. Have eye-wash stations available where eye contact can occur.

Skin Protection: Avoid skin contact. Wear gloves impervious to conditions of use. Additional protection may be necessary to prevent skin contact including use of apron, face shield, boots or full body protection. A safety shower should be located in the work area. Recommended protective materials include: Butyl rubber and for limited contact Teflon.

Respiratory Protection: If exposure limits are exceeded, NIOSH approved respiratory protection should be worn. A NIOSH approved respirator for organic vapors is generally acceptable for concentrations up to 10 times the PEL. For higher concentrations, unknown concentrations and for oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator. Engineering controls are the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint: 20°C (35°F)
Autoignition Temperature: 480°C (896°F)
Boiling Point: 77°C (170.6°F) @ 760 mm Hg
Melting Point: -82°C
Vapor Pressure: 100.0 mm Hg @ 23°C
Vapor Density (Air=1): 1.7; air = 1
% Solubility in Water: 10 @ 20°C
Pour Point: NA
Molecular Formula: Mixture
Odor/Appearance: Clear, colorless liquid with mild, pungent odor.
Lower Flammability Limit: >3.00%
Upper Flammability Limit: <15.00%
Specific Gravity: 0.82g/ml @ 20°C %
Volatile: 100 Evaporation Rate (Water=1): 5 (Butyl Acetate =1)
Viscosity: 0.3 cP @ 25°C
Section 10 – STABILITY AND REACTIVITY

**Stability/Incompatibility:** Incompatible with ammonia, amines, bromine, strong bases and strong acids.

**Hazardous Reactions/Decomposition Products:** Thermal decomposition products may include oxides of carbon and nitrogen.

Section 11 – TOXICOLOGICAL INFORMATION

**Signs and Symptoms of Overexposure:** Eye and nasal irritation, headache, dizziness, nausea, vomiting, heart palpitations, difficulty breathing, cyanosis, tremors, weakness, itching or burning of the skin.

**Acute Effects:**

Eye Contact: may cause severe conjunctival irritation and corneal damage.

Skin Contact: may cause reddening, blistering or burns with permanent damage. Harmful if absorbed through the skin. May cause allergic skin reaction.

Inhalation: may cause severe irritation with possible lung damage (pulmonary edema).

Ingestion: may cause severe gastrointestinal burns.

**Target Organ Effects:** May cause gastrointestinal (oral), respiratory tract, nervous system and blood effects based on experimental animal data. May cause cardiovascular system and liver effects.

**Chronic Effects:** based on experimental animal data, may cause changes to genetic material; adverse effects on the developing fetus or on reproduction at doses that were toxic to the mother. Methyltox is classified by IARC as group 2B and by NTP as reasonably anticipated to be a human carcinogen. OSHA regulates Methyltox as a potential carcinogen.

**Medical Conditions Aggravated by Exposure:** preexisting diseases of the respiratory tract, nervous system, cardiovascular system, liver or gastrointestinal tract.

**Acute Toxicity Values**
- Oral LD₅₀ (Rat) = 100 mg/kg
- Dermal LD₅₀ (Rabbit) = 225-300 mg/kg
- Inhalation LC₅₀ (Rat) = 200 ppm/4 hr., 1100 ppm vapor/1 hr

Section 12 – ECOLOGICAL INFORMATION

- LC₅₀ (Fathead Minnows) = 9 mg/L/96 hr.
- EC₅₀ (Daphnia) = 8.6 mg/L/48 hr.

Bioaccumulation is not expected to be significant. This product is readily biodegradable.

Section 13 – DISPOSAL CONSIDERATIONS

As sold, this product, when discarded or disposed of, is a hazardous waste according to Federal regulations (40 CFR 261). It is listed as Hazardous Waste Number Z000, listed due to its toxicity. The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can occur only in properly permitted facilities. Refer to state and local requirements for any additional requirements, as these may be different from Federal laws and regulations. Chemical additions, processing or otherwise altering this material may make waste management information
presented in the MSDS incomplete, inaccurate or otherwise inappropriate.

**Section 14 – TRANSPORT INFORMATION**

**U.S. Department of Transportation (DOT)**
Proper Shipping Name: Methyltoxy
Hazard Class: 3, 6.1
UN/NA Number: UN0000
Packing Group: PG 2
Labels Required: Flammable Liquid and Toxic

**International Maritime Organization (IMDG)**
Proper Shipping Name: Methyltoxy
Hazard Class: 3 Subsidiary 6.1
UN/NA Number: UN0000
Packing Group: PG 2
Labels Required: Flammable Liquid and Toxic

**Section 15 – REGULATORY INFORMATION**

**U.S. Federal Regulations**
Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):
The reportable quantity (RQ) for this material is 1000 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory.


Clean Air Act (CAA): Methyltoxy is a hazardous substance under the Clean Air Act. Consult Federal, State and local regulations for specific requirements.

Superfund Amendments and Reauthorization Act (SARA) Title III Information:
SARA Section 311/312 (40 CFR 370) Hazard Categories:
Immediate Hazard: X
Delayed Hazard: X
Fire Hazard: X
Pressure Hazard: 
Reactivity Hazard:
This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372).

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**State Regulations**

California: This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm:

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**International Regulations**

Canadian Environmental Protection Act: All of the components of this product are included on the Canadian Domestic Substances list (DSL).

Canadian Workplace Hazardous Materials Information System (WHMIS):

- Class B-2 Flammable Liquid
- Class D-1-B Toxic
- Class D-2-A Carcinogen
- Class D-2-B Chronic Toxin
- Class E Corrosive

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

European Inventory of Existing Chemicals (EINECS): All of the components of this product are included on EINECS.

EU Classification: F Highly Flammable; T Toxic; N Dangerous to the Environment

EU Risk (R) and Safety (S) Phrases:

- R11: Highly flammable
- R23/24/25: Toxic by inhalation, in contact with skin and if swallowed
- R37/38: Irritating to respiratory system and skin
- R41: Risk of serious damage to eyes
- R43: May cause sensitization by skin contact
- R45: May cause cancer
- R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- S53: Avoid exposure - obtain special instructions before use
- S16: Keep away from sources of ignition - No Smoking
- S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
- S9: Keep container in a well-ventilated place
- S36/37: Wear suitable protective clothing and gloves
- S57: Use appropriate container to avoid environmental contamination.
Section 16 – OTHER INFORMATION

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system

Health: 3
Flammability: 3
Reactivity: 0

Version 1.0 prepared 8/13/2013

ACGIH American Conference of Governmental Hygienists
AKA Also Known As, Synonym
CAS Chemical Abstract Service
IARC International Agency for Research of Cancer
mg/m³ milligrams per Cubic Meter
N No, None, Not listed
NA Not Applicable, Not Available
ND Not Determined
NIL Not measurable, significant, noticeable, or an affect
NTP National Toxicology Program
OSHA Occupational Safety and Health Administration
ppm parts per million
Y Yes, Does Exists, Is Listed,