

# Safety Data Sheet

## Metanil Yellow, 0.25% in 0.25% Acetic Acid

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Metanil Yellow, 0.25% in 0.25% Acetic Acid

**Catalog Numbers:** SO-371, A-120-4, E-320-2, E-328-2, F-378-2A, J-607-3

**Company Identification:** Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**for information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

#### GHS Classifications

H316-Skin corrosion/irritation: 3

H317-Sensitisation, skin: 1

H320-Serious eye damage/eye irritation: 2B

H361-Reproductive toxicity: 2

#### Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Warning

#### Hazard Statements:

H316-Causes mild skin irritation

H317-May cause an allergic skin reaction

H320-Causes eye irritation

H361-Suspected of damaging fertility or the unborn child

## Precautionary Statements:

P201-Obtain special instructions before use.  
P202-Do not handle until all safety precautions have been read and understood.  
P261-Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264-Wash thoroughly after handling.  
P272-Contaminated work clothing should not be allowed out of the workplace.  
P280-Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352-If on skin: Wash with plenty of soap and water.  
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313-If exposed or concerned: Get medical advice/attention.  
P332+P313-If skin irritation occurs: Get medical advice/attention.  
P333+P313-If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313-If eye irritation persists: Get medical advice/attention.  
P362+P364-Take off contaminated clothing and wash it before reuse.  
P405-Store locked up.  
P501-Dispose of contents/container in accordance with local/national/international regulations.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
587-98-4	Metanil Yellow	0.25 w/v
64-19-7	Glacial Acetic Acid	0.25 v/v
7732-18-5	Water	Balance

### Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical attention.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention.

**Oral Exposure:** If swallowed, seek immediate medical advice.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in

pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

**Hazardous Combustion Products:** Carbon oxides, nitrogen oxides, sulfur oxides, sodium oxides, irritating and toxic fumes and gases.

**Flash Point:** Not available

**Autoignition Temperature:** Not available

**Explosion Limits, Lower:** Not available

**Upper:** Not available

**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0

## Section 6 - Accidental Release Measures

### **Procedure(s) of Personal Precaution(s):**

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

**Methods for Cleaning up:** Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains.

## Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Use with adequate ventilation. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Keep in a tightly closed container. Store in a cool, dry, and well-ventilated area. Keep away from incompatible materials.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

**Exposure Limits:**

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - Final PELs
Metanil Yellow CAS#587-98-4	Not listed	Not listed	Not listed
Glacial Acetic Acid CAS#64-19-7	10 ppm TWA 15 ppm STEL	10 ppm TWA 25 mg/m <sup>3</sup> TWA 15 ppm STEL 37 mg/m <sup>3</sup> STEL 50 ppm IDLH	10 ppm TWA 25 mg/m <sup>3</sup> TWA

**OSHA Vacated PELs:** Glacial Acetic Acid: 10 ppm TWA; 25 mg/m<sup>3</sup> TWA

Section 9 - Physical and Chemical Properties
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**Physical State:** Liquid  
**Appearance:** Orange/brown  
**Odor:** Odorless  
**Vapor Pressure:** Not available  
**Odor Threshold:** Not available  
**Vapor Density:** Not available  
**pH:** Approx. 3.7  
**Relative Density:** Not available  
**Melting point/freezing point:** Not available  
**Solubility:** Soluble in water  
**Boiling Point:** Not available  
**Flash Point:** Not available  
**Evaporation Rate:** Not available  
**Flammability (solid, gas):** Not available  
**Partition coefficient: n-octanol/water:** Not available  
**Autoignition Temperature:** Not available  
**Decomposition temperature:** Not available  
**Viscosity:** Not available  
**Specific Gravity/Density:** Not available

Section 10 - Stability and Reactivity
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**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Incompatible materials and excess heat  
**Incompatibilities with Other Materials:** Strong oxidizing agents, strong bases, metals, acids, chromic acid, ethylene glycol, perchloric acid, nitric acid, phosphorous trichloride, oxidizers, sodium peroxide, strong caustics, carbonates, hydroxides, oxides, and phosphates.  
**Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides, sulfur oxides, sodium oxides, irritating and toxic fumes and gases.

Section 11 - Toxicological Information

**CAS#587-98-4 Metanil Yellow: RTECS#: DB7329500**

LD50 Oral: 5000 mg/kg (rat)

LC50 Dermal: >2000 mg/kg

LC50 Inhalation: Not listed

**Carcinogenicity:** Metanil Yellow CAS#587-98-4 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

**Germ cell mutagenicity:** Mutation in mammalian somatic cells.

**Reproductive effects:** Spermatogenesis.

Note: Laboratory experiments have shown chronic consumption of Metanil Yellow had neurotoxic effects on developing and adult rats (central nervous system).

**CAS# 64-19-7 Glacial Acetic Acid: RTECS#: AF1225000**

LD50 Oral: 3310 mg/kg (rat)

LD50 Dermal: 1060 mg/kg (rabbit)

LC50 Inhalation: 11.4 mg/L 4h (rat)

**Investigated as a mutagen, reproductive effector.**

Skin corrosion/irritation: skin (rabbit), causes severe burns.

Serious eye damage/eye irritation: eyes (rabbit), corrosive to eyes, and causes serious eye damage.

**Carcinogenicity:** Glacial Acetic Acid CAS#64-19-7 is not listed by ACGIH, IARC, NTP, OSHA, or California Prop. 65.

Note: Acetic acid is extremely destructive to all body tissue. In concentrated form (glacial acetic acid), it is corrosive and flammable. Inhalation of concentrated vapors may cause serious damage to the lining of the nose, throat, and lungs. Breathing difficulties may occur. Ingestion of concentrated acetic acid causes severe swelling, severe damage to the tissue and danger of perforation. Contact with concentrated acetic acid may cause serious damage to the skin. Eye contact with concentrated acetic acid may cause severe eye damage followed by loss of sight. Exposure to vapor may cause intense watering and irritation to eyes.

**Information on the likely routes of exposure:** Routes of entry anticipated: oral, dermal, inhalation, and eye.

**Epidemiology:** Not available.

**Teratogenicity:** Not available.

**Reproductive Effects:** Suspected of damaging fertility or the unborn child. Experiments have shown reproductive toxicity effects on laboratory animals (Metanil Yellow).

**Developmental Effects:** Not available.

**Neurotoxicity:** Laboratory experiments have shown chronic consumption of Metanil Yellow had neurotoxic effects on developing and adult rats (central nervous system).

**Mutagenicity:** Experiments with human lymphocytes have shown mutagenic effects (Metanil Yellow).

**Specific Target Organ Toxicity, Single Exposure:** Not available.

**Specific Target Organ Toxicity, Repeated Exposure:** Not available.

**Symptoms associated with exposure:** Eye contact may cause irritation, pain, redness, watering. May cause an allergic skin reaction. Symptoms of an allergic reaction may include: rash, dermatitis, itching, swelling, trouble breathing, tingling of hands/feet, dizziness, lightheadedness, chest pain, muscle pain, flushing. Ingestion overexposure may cause changes in the blood (red blood cell count, anemia) and liver. Ingestion overexposure may cause neurotoxicity. Suspected of damaging fertility and/or the unborn child.

**The toxicological properties of this material have not been thoroughly investigated.**

## Section 12 - Ecological Information

**Ecotoxicity:** Do not release to the environment. Do not release to drains. Harmful to aquatic life.

**CAS#587-98-4 Metanil Yellow:**

LC50, freshwater fish: 10-100 mg/L 96h (poecilia reticulata)(guppy)

**CAS#64-19-7 Glacial Acetic Acid:**

LC50, freshwater fish: 88 mg/L 96h (pimephales promelas)(fathead minnow)

LC50, freshwater fish: 75 mg/L 96h (lepomis macrochirus)(bluegill)

EC50, water flea: 95 mg/L 24h

EC50, microtox: 8.8 mg/L 5min

**Persistence and degradability:** No information available.

**Bio-accumulative potential:** No information available.

**Mobility:** Will likely be mobile in the environment due to its water solubility.

## Section 13 - Disposal Considerations

**DISPOSAL:** Dispose of in accordance with all federal, state, and local regulations.

## Section 14 - Transport Information

**DOT**

Non-Regulated

## Section 15 - Regulatory Information

### **Canada Regulatory Information**

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

## Section 16 - Additional Information

**SDS Creation Date:** 10/15/12

**Revision #1:** RC 10/30/14

**Revision #2:** RC 6/9/15

**Revision #3:** 10-15-21

**Revision #4:** 12-5-23

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