1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Metanil Yellow
Product Number : 64010
Brand : Fluka
Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO  63103
USA
Telephone : +18003255832
Fax : +18003255052
Emergency Phone # : (314) 776-6555

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Acicid Metanil Yellow
Aizen Metanil Yellow
Amacid Metanil Yellow M
Brasilian Metanil Yellow
Acid Leather Yellow 36
Acid Leather Yellow PRW
Bucacid Metanil Yellow
Calcocid Yellow MXXX
C.I.13065
C.I. Acid Yellow 36
C.I. Acid Yellow 36 monosodium salt
Ciacid Metanil Yellow
Eniacid Metanil Yellow GN
Ext D and C Yellow No. 1
Fenazo Yellow M
Hidacid Metanil Yellow
Hispacid Yellow MG
Java Metanil Yellow G
Kiton Orange MNO
Kiton Yellow MS
Metanile Yellow Yellow O
Metanil Yellow 1955
Metanil Yellow C
Metanil Yellow E
Metanil Yellow Extra
Metanil Yellow F
Metanil Yellow G
Metanil Yellow Griesbach
Metanil Yellow K
Metanil Yellow KRSU
Metanil Yellow M3X
Metanil Yellow PL
Metanil Yellow S
Metanil Yellow Supra P
Metanil Yellow VS
Metanil Yellow WS
Metanil Yellow Y
Metanil Yellow YK
Mitsui Metanil Yellow
Monoazo
Remaderm Yellow HPR
Shikiso Metanil Yellow
Symulon Metanil Yellow
Takaoka Metanil Yellow
Tertracid Yellow M
Tropaeolin G
Vondacid Metanil Yellow
11363 Yellow
Yodochrome Metanil Yellow
Zlut kysela 36 (Czech)
Zlut metanilova (Czech)

Formula : C18H14N3NaO3S
Molecular Weight : 375.38 g/mol

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<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Concentration</th>
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<td>209-608-2</td>
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3. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards
Skin sensitizer

HMIS Classification

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical hazards</th>
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</thead>
<tbody>
<tr>
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NFPA Rating

<table>
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<tr>
<th>Health Hazard</th>
<th>Fire</th>
<th>Reactivity Hazard</th>
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<tbody>
<tr>
<td>2</td>
<td>0</td>
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Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.

4. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties
- Flash point: no data available
- Ignition temperature: no data available

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions
Do not let product enter drains.

Methods for cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling
Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves.

Eye protection
Safety glasses

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
**Hygiene measures**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**
- Form: powder

**Safety data**
- pH: no data available
- Melting point: no data available
- Boiling point: no data available
- Flash point: no data available
- Ignition temperature: no data available
- Lower explosion limit: no data available
- Upper explosion limit: no data available
- Water solubility: no data available

**10. STABILITY AND REACTIVITY**

**Storage stability**
Stable under recommended storage conditions.

**Materials to avoid**
Strong oxidizing agents

**Hazardous decomposition products**
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**
- LD50 Oral - rat - 5,000 mg/kg
- LD50 Intraperitoneal - mouse - 1,000 mg/kg
- LD50 Intravenous - mouse - 200 mg/kg

**Irritation and corrosion**
no data available

**Sensitisation**
May cause sensitization by skin contact.

**Chronic exposure**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Genotoxicity in vitro - Human - lymphocyte
Mutation in mammalian somatic cells.

Genotoxicity in vitro - Human - leukocyte
Cytogenetic analysis

Genotoxicity in vivo - mouse - Oral
Cytogenetic analysis

Genotoxicity in vivo - mouse - Intraperitoneal
Sister chromatid exchange

Reproductive toxicity - rat - male
Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.

Additional Information
RTECS: DB7329500

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)
no data available

Ecotoxicity effects
no data available

Further information on ecology
no data available

13. DISPOSAL CONSIDERATIONS

Product
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards
Skin sensitizer

TSCA Status
On TSCA Inventory

DSL Status
All components of this product are on the Canadian DSL list.

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

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New Jersey Right To Know Components

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California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Further information
Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.