



Material Safety Data Sheet  
Methyl Yellow, indicator grade

MSDS# 25294

### Section 1 - Chemical Product and Company Identification

MSDS Name: Methyl Yellow, indicator grade  
Catalog Numbers: AC151400000, AC151401000  
Synonyms: C.I. 11020; 4-Dimethylaminoazobenzene; N,N-Dimethyl-4-phenylazoaniline; Solvent Yellow 2.

Company Identification: Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

Company Identification: (USA) Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

### Section 2 - Composition, Information on Ingredients

-----  
CAS#: 60-11-7  
Chemical Name: Methyl Yellow  
%: 100  
EINECS#: 200-455-7  
-----

Hazard Symbols: T



Risk Phrases: 25 40 68

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Danger! Possible risks of irreversible effects. May cause methemoglobinemia. May cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). Toxic if swallowed. Possible cancer hazard. May cause cancer based on animal data. Target Organs: Blood, kidneys, liver, lungs, respiratory system, skin.

#### Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May cause dermatitis. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. May form methemoglobin which in sufficient concentration causes cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). Toxic if swallowed.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

Possible cancer hazard based on tests with laboratory animals. Prolonged or repeated skin contact may cause dermatitis. May cause methemoglobinemia, which is characterized by chocolate-brown colored blood,

Chronic: headache, weakness, dizziness, breath shortness, cyanosis (bluish skin due to deficient oxygenation of blood),

rapid heart rate, unconsciousness and possible death. Chronic exposure may cause liver damage. Chronic exposure may cause blood effects. Possible risk of irreversible effects.

#### Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** POISON material. If swallowed, get medical aid immediately. Only induce vomiting if directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Notes to Physician:** Treat symptomatically and supportively.

#### 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.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

**Autoignition:** Not applicable.

**Temperature:**

**Flash Point:** Not applicable.

**Explosion Limits:** Not available

**Lower:**

**Explosion Limits:** Not available

**Upper:**

**NFPA Rating:** health: 3; flammability: 1; instability: 0;

#### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

#### Section 7 - Handling and Storage

**Handling:** Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood.

**Storage:** Store in a cool, dry place. Store in a tightly closed container.

#### Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Methyl Yellow	none listed	none listed	(Cancer suspect agent - see 29 CFR 1910.1003)

OSHA Vacated PELs: Methyl Yellow: None listed

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

**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 respirator use.

#### Section 9 - Physical and Chemical Properties

Physical State: Powder

Color: orange-brown - orange

Odor: slight characteristic odor

pH: 5 - 7 (10g/L aq. sol.)

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: 111 - 117 deg C

Decomposition Temperature: Not available

Solubility in water: 13.6 mg/L

Specific Gravity/Density: Not available.

Molecular Formula: C<sub>14</sub>H<sub>15</sub>N<sub>3</sub>

Molecular Weight: 225.29

#### Section 10 - Stability and Reactivity

- Chemical Stability: Stable under normal temperatures and pressures.  
Conditions to Avoid: Incompatible materials, dust generation, excess heat.  
Incompatibilities with Other Materials: Acids, acid anhydrides.  
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide.  
Hazardous Polymerization: Will not occur.

#### Section 11 - Toxicological Information

RTECS#: CAS# 60-11-7: BX7350000

RTECS:

LD50/LC50: CAS# **60-11-7**: Oral, mouse: LD50 = 300 mg/kg;  
Oral, rat: LD50 = 200 mg/kg;

Carcinogenicity: Methyl Yellow - California: carcinogen, initial date 1/1/88 NTP: Suspect carcinogen IARC: Group 2B carcinogen

Other: See actual entry in RTECS for complete information.

#### Section 12 - Ecological Information

Other: Do not empty into drains.

#### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

#### Section 14 - Transport Information

US DOT

Shipping Name: DYES, SOLID, TOXIC, N.O.S.

Hazard Class: 6.1

UN Number: UN3143

Packing Group: III

Canada TDG

Shipping Name: DYE SOLID TOXIC NOS (METHYL YELLOW)

Hazard Class: 6.1

UN Number: UN3143

Packing Group: II

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 25 Toxic if swallowed.

R 40 Limited evidence of a carcinogenic effect.

R 68 Possible risk of irreversible effects.

Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 60-11-7: Not available

Canada

CAS# 60-11-7 is listed on Canada's DSL List

Canadian WHMIS Classifications: D1B, D2A

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

CAS# 60-11-7 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 60-11-7 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/03/1998

Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

-----