

SIGMA-ALDRICH**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

Version 3.0 Revision Date 21.08.2009

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name : Butter Yellow

Product Number : 73225

Brand : Fluka

Company : Sigma-Aldrich (Shanghai) Trading Co.,Ltd
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2. HAZARDS IDENTIFICATION**Risk advice to man and the environment**

Toxic if swallowed. Limited evidence of a carcinogenic effect.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Dimethyl yellow
Butter yellow
4-(Dimethylamino)azobenzene
N,N-Dimethyl-4-(phenylazo)aniline
Methyl yellow

Formula : $C_{14}H_{15}N_3$

Molecular Weight : 225,29 g/mol

| CAS-No. | EC-No. | Index-No. | Classification | Concentration |
|----------------------------------|-----------|-----------|----------------|---------------|
| 4-Dimethylaminoazobenzene | | | | |
| 60-11-7 | 200-455-7 | - | T, R25 - R40 | - |

4. FIRST AID MEASURES**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

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**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. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. 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

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection

Face shield and 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

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form

solid

Safety data

| | |
|-----------------------|-------------------|
| pH | no data available |
| Melting point | 111 °C - lit. |
| 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

acids, Acid anhydrides, Oxidizing agents

Hazardous decomposition products

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

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

LD50 Oral - rat - 200 mg/kg

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (4-Dimethylaminoazobenzene)

Laboratory experiments have shown mutagenic effects.

May cause congenital malformation in the fetus.

Signs and Symptoms of Exposure

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

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 | Toxic if swallowed. |
| Target Organs | Liver, Bladder, Blood, Kidney, |

Additional Information

RTECS: BX7350000

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**ADR/RID**

UN-Number: 2811 Class: 6.1

Packing group: III

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (4-Dimethylaminoazobenzene)

IMDG

UN-Number: 2811 Class: 6.1

Packing group: III

EMS-No: F-A, S-A

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (4-Dimethylaminoazobenzene)

Marine pollutant: No

IATA

UN-Number: 2811 Class: 6.1

Packing group: III

Proper shipping name: Toxic solid, organic n.o.s. (4-Dimethylaminoazobenzene)

15. REGULATORY INFORMATION**Labelling according to EC Directives****Hazard symbols**

T

Toxic

R-phrases(s)

R25

Toxic if swallowed.

R40

Limited evidence of a carcinogenic effect.

S-phrases(s)

S36/37

Wear suitable protective clothing and gloves.

S45

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

16. OTHER INFORMATION**Further information**

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