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DIMETHYL YELLOW

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION:

Synonyms: Dimethyl yellow, Solvent yellow 2, Methyl yellow

CAS No.: 60-11-7

Molecular Weight: 225.30

Chemical Formula: C₁₄H₁₅N₃

2. COMPOSITION, INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u>
Dimethyl yellow	60-11-7		No

3. HAZARDS IDENTIFICATION:

Toxic if swallowed. Limited evidence of a carcinogenic effect.

4. FIRST AID MEASURES:

First-aid personnel: ensure self-protection!

After inhalation: fresh air.

If breathing stops: immediately apply mechanical ventilation, if necessary oxygen mask. Immediately call in physician.

After skin contact: wash off with plenty of water. Remove contaminated clothing. Call in physician.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist.

After swallowing: make victim drink plenty of water, induce vomiting. Immediately call in physician.

5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Water, CO₂, foam, powder.

Special risks: Combustible. Danger of dust explosion. Development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in event of fire: nitrogen oxides.

Special protective equipment for fire fighting:

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Other information:

Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES:

Person-related precautionary measures:

Avoid substance contact. Avoid generation of dusts; do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Environmental-protection measures: Do not allow to enter sewerage system.

Procedures for cleaning / absorption: Take up dry. Forward for disposal. Clean up affected area.

7. HANDLING AND STORAGE:

Handling: Notes for safe handling:

Work under hood . Do not inhale substance.

Storage:

Tightly closed in a well-ventilated place. Accesible only for authorised persons. Dry. At +5°C to +30°C. Protected from light.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: required when dusts are generated. filter ABEK

Eye protection: required.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form	:	solid
Colour	:	brownish
Odour	:	weak characteristic odour
pH value	:	at 10 g/l H ₂ O (20 °C) ~ 5-7 (filtered slurry)
Melting point	:	110-116 °C
Boiling point	:	not available
Ignition temperature:		not available
Flash point	:	not available
Explosion limits lower:		not available
upper	:	not available
Density	:	not available
Bulk density	:	~ 190 kg/m ³
Solubility in	:	water (20 °C) almost insoluble
log Pow	:	4.58 (experimental)

10. STABILITY AND REACTIVITY:

Conditions to be avoided Heating. Substances to be avoided

Exothermic reaction with: oxidizing agent, acids, acid anhydrides.

Hazardous decomposition products

Further information heat-sensitive, light-sensitive. dust explosion possible.

11. TOXICOLOGICAL INFORMATION:

Subacute to chronic toxicity

The carcinogenic potential requires further clarification. Carcinogenic in animal experiments. Further toxicological information

After swallowing: dyspnoea, cyanosis.

Other notes:

The following applies to azo dyes in general: azo dyes containing a carcinogenic aryl amine component are suspected of possessing a carcinogenic potential. It is therefore recommended that the substance be handled as if it possessed the properties of the basic amine.

Further data

Further hazardous properties cannot be excluded. This substance should be handled with particular care.

12. ECOLOGICAL INFORMATION:

Behavior in environmental compartments:

Distribution: log p(o/w): 4.58 (experimental).

An appreciable bioaccumulation potential is to be expected ($\log P(o/w) > 3$).

Ecotoxic effects:

Quantitative data on the ecological effect of this product are not available.

Further ecologic data:

Do not allow to enter waters, waste water, or soil!

13. DISPOSAL CONSIDERATIONS:

Product:

Chemicals must be disposed of in compliance with the respective national regulations. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.

Packaging:

Merck product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners.

14. TRANSPORT INFORMATION:

Road & Rail ADR, RID

UN 2811 GIFTIGER ORGANISCHER FESTER STOFF, N.A.G.

(4-(DIMETHYLAMINO)-AZOBENZOL), 6.1, III

Inland waterway ADN, ADNR not tested

Sea IMDG-Code

UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (4-(DIMETHYLAMINO)-AZOBENZENE), 6.1, III Ems F-A S-A

Air CAO, PAX

TOXIC SOLID, ORGANIC, N.O.S. (4-(DIMETHYLAMINO)-AZOBENZENE),
6.1, UN 2811, III

The transport regulations are cited according to international regulations and in the form applicable in Germany .Possible national deviations in other countries are not considered.

15. REGULATORY INFORMATION:

Labeling according to EC Directives

Symbol: T Toxic

R-phrases: 25-40 Toxic if swallowed. Limited evidence of a carcinogenic effect

S-phrases: 36/37-45 Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. DISCLAIMER INFORMATION:

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