

# SAFETY DATA SHEET

Creation Date 19-April-2012 Revision Date 29-March-2024 Revision Number 5

1. Identification

Product Name Methyl Yellow

Cat No. : B21145

**CAS-No** 60-11-7

Synonyms 4-Dimethylaminoazobenzene; C.I. 11020; N,N-Dimethyl-4-phenylazoaniline; Solvent Yellow

2

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

#### Company

## Importer/Distributor

Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6,

Canada

Tel: 1-800-234-7437

### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

Classification

WHMIS 2015 Classification Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Acute oral toxicity Category 3
Carcinogenicity Category 1B

Label Elements

## Signal Word

Danger

#### **Hazard Statements**

May cause cancer Toxic if swallowed

Methyl Yellow Revision Date 29-March-2024



## **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eve protection/face protection

Do not eat, drink or smoke when using this product

#### Response

IF exposed or concerned: Get medical advice/attention

IF SWALLOWED: Immediately call a POISON CENTER/doctor

Rinse mouth

### **Storage**

Store locked up

#### **Disposal**

Dispose of contents/container to an approved waste disposal plant

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %	
Benzenamine, N,N-dimethyl-4-(phenylazo)-	60-11-7	<=100	

## 4. First-aid measures

**General Advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Immediate medical attention is required.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms/effects

Notes to Physician

None reasonably foreseeable.

Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Revision Date 29-March-2024 Methyl Yellow

**Flash Point** No information available No information available Method -

**Autoignition Temperature** 

**Explosion Limits** 

Not applicable

No data available Upper Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health **Flammability** Instability Physical hazards N/A 3 1 0

#### Accidental release measures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust **Personal Precautions** 

formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe

areas.

**Environmental Precautions** Should not be released into the environment.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

_	1.1 100			
<b>/</b> .	Handling	and	storag	е

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face Handling

> protection. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical

assistance.

Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Storage.

Materials. Acids. Acid anhydrides.

## 8. Exposure controls / personal protection

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

OSHA - Occupational Safety and Health Administration

Ensure adequate ventilation, especially in confined areas. **Engineering Measures** 

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control

hazardous materials at source

Personal protective equipment

**Eye Protection** Goggles

**Hand Protection** Protective gloves

Revision Date 29-March-2024 Methyl Yellow

Glove material	Breakthrough time	Glove thickness	Glove comments
Nitrile rubber	See manufacturers	-	Splash protection only
Neoprene	recommendations		
Natural rubber			
PVC			

Inspect gloves before use, observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, gloves with care avoiding skin contamination.

#### **Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly Recommended Filter type: Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

#### **Environmental exposure controls**

No information available.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

## Physical and chemical properties

Powder Solid **Physical State Appearance** Amber Odor Slight

**Odor Threshold** No information available 5-7 10g/l aq.sol рΗ

111 - 117 °C / 231.8 - 242.6 °F Melting Point/Range

**Boiling Point/Range** No information available **Flash Point** No information available

**Evaporation Rate** Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available Lower No data available No information available **Vapor Pressure** Not applicable **Vapor Density** 

**Specific Gravity** No information available Solubility Insoluble in water

Partition coefficient; n-octanol/water No data available **Autoignition Temperature** Not applicable

**Decomposition Temperature** No information available

**Viscosity** Not applicable Molecular Formula C14 H15 N3 **Molecular Weight** 225.29

## 10. Stability and reactivity

None known, based on information available Reactive Hazard

Stability Stable under normal conditions.

Incompatible products. Excess heat. **Conditions to Avoid** 

Revision Date 29-March-2024 Methyl Yellow

**Incompatible Materials** Acids, Acid anhydrides

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

#### **Acute Toxicity**

### **Product Information Component Information**

LD50 Dermal LD50 Oral LC50 Inhalation Component Benzenamine, LD50 = 200 mg/kg (Rat) Not listed Not listed N,N-dimethyl-4-(phenylazo)-

**Toxicologically Synergistic** 

No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzenamine,	60-11-7	Group 2B	Reasonably	Not listed	Х	Not listed
N,N-dimethyl-4-(pheny			Anticipated			
lazo)-						

IARC (International Agency for Research on Cancer)

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program) NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human

Carcinogen

Substances which cause concern for man owing to possible mutagenic effects but for which **Mutagenic Effects** 

the available information is not adequate for making a satisfactory assessment

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

None known STOT - single exposure STOT - repeated exposure None known

No information available **Aspiration hazard** 

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## 12. Ecological information

**Ecotoxicity** 

Methyl Yellow Revision Date 29-March-2024

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Do not empty into drains.

Persistence and Degradability May persist Insoluble in water

**Bioaccumulation/ Accumulation** No information available.

**Mobility** . Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Benzenamine, N,N-dimethyl-4-(phenylazo)-	4.58

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes		
Benzenamine, N,N-dimethyl-4-(phenylazo) 60-11-7	U093	-		

## 14. Transport information

DOT

UN-No UN3143

Proper Shipping Name
Technical Name

DYES, SOLID, TOXIC, N.O.S.
4-Dimethylaminoazobenzene

Hazard Class 6.1 Packing Group III

TDG

UN-No UN3143

Proper Shipping Name Dye, solid, toxic, n.o.s

Hazard Class 6.1 Packing Group III

<u>IATA</u>

UN-No UN3143

Proper Shipping Name Dye, solid, toxic, n.o.s

Hazard Class 6.1 Packing Group III

IMDG/IMO

UN-No UN3143

Proper Shipping Name Dye, solid, toxic, n.o.s

Hazard Class 6.1 Packing Group III

# 15. Regulatory information

#### International Inventories

Component	CAS-No	DSL	NDSL	TSCA	TSCA Inventory notification - Active-Inactive	EINECS	ELINCS	NLP
Benzenamine, N,N-dimethyl-4-(phenylazo)-	60-11-7	Х	-	Х	ACTIVE	200-455-7	-	-

Component	CAS-No	IECSC	KECL	ENCS	ISHL	TCSI	AICS	NZIoC	PICCS
Benzenamine,	60-11-7	Х	KE-11776	Х	Х	X	Х	X	Х
N,N-dimethyl-4-(phenylazo)-									

Legend:

X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Methyl Yellow Revision Date 29-March-2024

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

#### Other International Regulations

#### Authorisation/Restrictions according to EU REACH

Component	. ,	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	
Benzenamine, N,N-dimethyl-4-(phenylazo)-	-	Use restricted. See item 75. (see link for restriction details)	-

#### **REACH links**

https://echa.europa.eu/substances-restricted-under-reach

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS-No	OECD HPV	Persistent Organic Pollutant	Potential	Hazardous Substances (RoHS)
Benzenamine, N,N-dimethyl-4-(phenylazo)-	60-11-7	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS-No	L O III D'	Sovoso III Directive	Pottordam	Basel Convention

Component	CAS-No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Benzenamine, N.N-dimethyl-4-(phenylazo)-	60-11-7	Not applicable	Not applicable	Not applicable	Not applicable

## 16. Other information

Prepared By Product Safety Department

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www.thermofisher.com

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**Revision Summary** New emergency telephone response service provider.

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**