

SAFETY DATA SHEET

In accordance with Directive 1907/2006/EC, 2020/878
Version 2.0 Revision date : 11-02-2021
Trade name: Aniline yellow

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identification :

Product name: Aniline yellow
Product Description: 4-Diethylaminoazobenzene
CAS No.: 2481-94-9
Molecular Formula: C16 H19 N3

1.2 Relevant identified uses of the substance or mixture and uses advised against :

Usage: Laboratory chemicals, wax dye.
Recommended use restrictions: For industrial and professional use only.

1.3 Contact details of the supplier of the safety data sheet :

Responsible distributor: ASSYST sprl / A.S.O.W. sprl
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
E-mail: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number :

For Belgium:

Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.

NHS 24 Direct

For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture :

Classification according to Directive (EC) No 1272/2008 and its amendments.

The product is classified according to current legislation.

Classification according to Regulation (EC) No 1272/2008, as amended.

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Acute oral toxicity Category 4 (H302)
Skin Corrosion/Irritation Category 2 (H315)
Serious Eye Damage/Eye Irritation Category 2 (H319)
Skin Sensitization Category 1 (H317)

Environmental hazards

Chronic aquatic toxicity Category 3 (H412)
Full text of Hazard Statements: see section 16

2.2 Labelling elements :

Labelling in accordance with Regulation (EC) No 1272/2008 [CLP/GHS] :

Danger pictograms :



Signal word:

Warning.

Hazard statements :

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H302 - Harmful if swallowed
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements:

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention
P280 - Wear protective gloves/protective clothing/eye protection/face protection

2.3 Other hazards :

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Toxicological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

SECTION 3: Composition and information on ingredients

3.1 Substances :

Component	Classification	Concentration
Benzenamine, N,N-diethyl-4-(phenylazo)- CAS No: 2481-94-9 EC no: 219-616-8	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	<= 100 %

For the full text of H phrases referred to in this section, see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures :

General Advice:

If symptoms persist, call a physician.

Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Get medical attention.

Skin Contact:

Wash off immediately with plenty of water for at least 15 minutes.

If skin irritation persists, call a physician.

Ingestion:

Clean mouth with water and drink afterwards plenty of water.

Get medical attention if symptoms occur.

Inhalation:

Remove to fresh air.

If not breathing, give artificial respiration.

Get medical attention if symptoms occur.

Self-Protection of the First Aider:

No special precautions required.

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4.2 Main symptoms and acute and delayed effects :

May cause allergic skin reaction.

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, light-headedness, chest pain, muscle pain or flushing.

4.3 Indication of immediate medical attention and special treatment required :

Notes to Physician:

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media :

Suitable extinguishing agents:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Unsuitable extinguishing media:

No information available.

5.2 Special hazards arising from the substance or mixture :

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products:

None under normal use conditions.

5.3 Advice to firefighters :

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures :

Ensure adequate ventilation.

Use personal protective equipment as required.

Avoid dust formation.

6.2 Environmental precautions :

Should not be released into the environment.

See Section 12 for additional Ecological Information.

Avoid release to the environment.

Collect spillage.

Do not flush into surface water or sanitary sewer system.

6.3 Containment and cleaning methods and materials :

Sweep up and shovel into suitable containers for disposal.

Keep in suitable, closed containers for disposal.

6.4 Reference to other paragraphs :

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: Handling and storage :

7.1 Precautions for safe handling of the substance or mixture :

Wear personal protective equipment/face protection.

Ensure adequate ventilation.

Avoid ingestion and inhalation.

Avoid dust formation.

Do not get in eyes, on skin, or on clothing.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice.

Keep away from food, drink and animal feeding stuffs.

Do not eat, drink or smoke when using this product.

Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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Wash hands before breaks and after work.

7.2 Conditions for safe storage, including incompatible products :

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

Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) (Germany)

Storage Class/LGK 11

Switzerland - Storage of hazardous substances Storage class - SC 11/13

<https://www.kvu.ch/de/themen/stoffe-und-produkte>

<https://www.kvu.ch/fr/themes/substances-et-produits>

<https://www.kvu.ch/it/temi/sostanze-e-prodotti>

7.3 Specific end use :

Use in laboratories.

SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters :

Exposure limits:

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological limit values:

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Monitoring methods:

BS EN 14042:2003 Title Identifier: Workplace atmospheres.

Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust.

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL):

No information available

Predicted No Effect Concentration (PNEC):

No information available.

8.2 Exposure control measures :

Engineering Measures:

None under normal use conditions.

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment:

Eye Protection:

Goggles (European standard - EN 166).

Hand Protection:

Protective gloves.

Glove material: Nitrile rubber
 Neoprene
 Natural rubber
 PVC

Breakthrough time: See manufacturers recommendations

Glove thickness: -

EU standard: EU 374

Glove comments: (minimum requirement)

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 compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the

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specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Skin and body protection:

Long sleeved clothing.

Respiratory Protection:

No protective equipment is needed under normal use conditions.

Large scale/emergency use:

Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type:

Particle filter.

Small scale/Laboratory use:

Maintain adequate ventilation

Environmental exposure controls:

Prevent product from entering drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties :

Physical State:	Solid
Appearance:	Light brown
Odor:	No information available
Odor Threshold:	No data available
Melting Point/Range:	93 - 96°C / 199.4 - 204.8°F
Softening Point:	No data available
Boiling Point/Range:	No information available
Flammability (liquid):	Not applicable Solid
Flammability (solid, gas):	No information available
Explosion Limits:	No data available
Flash Point:	No information available
	Method - No information available
Autoignition Temperature:	No data available
Decomposition Temperature:	No data available
pH:	No information available
Viscosity:	Not applicable - Solid
Water Solubility:	Insoluble in water
Solubility in other solvents:	No information available
Partition Coefficient (n-octanol/water):	No information available
Vapor Pressure:	No data available
Density / Specific Gravity:	No data available
Bulk Density:	No data available
Vapor Density:	Not applicable Solid

Characteristics of the particles

Particle size : No data available.

9.2 Other information

Molecular Formula:	C16 H19 N3
Molecular Weight:	253.35
Evaporation Rate:	Not applicable - Solid

SECTION 10: Stability and reactivity

10.1 Reactivity :

None known, based on information available.

10.2 Chemical stability :

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Stable under normal conditions.

10.3 Possible hazardous reactions :

Hazardous Polymerization:

No information available.

Hazardous Reactions:

None under normal processing.

10.4 Conditions to avoid :

Incompatible products.

Excess heat.

10.5 Incompatible materials :

None known.

10.6 Hazardous decomposition products :

None under normal use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects :

Product Information

(a) acute toxicity;

Oral: Category 4

Dermal: No data available

Inhalation: No data available

(b) skin corrosion/irritation:

Category 2

(c) serious eye damage/irritation:

Category 2

(d) respiratory or skin sensitization:

Respiratory: No data available

Skin: Category 1

May cause sensitization by skin contact.

(e) germ cell mutagenicity:

No data available

(f) carcinogenicity:

No data available

There are no known carcinogenic chemicals in this product.

(g) reproductive toxicity:

No data available

(h) STOT-single exposure:

No data available

(i) STOT-repeated exposure:

No data available

Target Organs: No information available.

(j) aspiration hazard:

Not applicable

Solid

Symptoms / effects, both acute and delayed:

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, light-headedness, chest pain, muscle pain or flushing.

11.2 Additional information

Endocrine Disrupting Properties:

Assess endocrine disrupting properties for human health.

This product does not contain any known or suspected endocrine disruptors.

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SECTION 12: Ecological information

12.1 Toxicity :

Ecotoxicity effects:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The product contains following substances which are hazardous for the environment.

12.2 Persistence and degradability :

Persistence:

Insoluble in water.

Degradation in sewage treatment plant:

Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.3 Bioaccumulation :

May have some potential to bioaccumulate.

12.4 Mobility in soil :

Spillage unlikely to penetrate soil. Is not likely mobile in the environment due its low water solubility.

12.5 Results of PBT and vPvB assessment :

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).

12.6 Endocrine disrupting properties

Endocrine Disruptor Information:

This product does not contain any known or suspected endocrine disruptors.

12.7 Other side effects :

Persistent Organic Pollutant:

This product does not contain any known or suspected substance.

Ozone Depletion Potential:

This product does not contain any known or suspected substance.

SECTION 13: Instructions for disposal

13.1 Waste disposal methods :

Waste from Residues/Unused Products:

Waste is classified as hazardous.

Dispose of in accordance with the European Directives on waste and hazardous waste.

Dispose of in accordance with local regulations.

Contaminated Packaging:

Dispose of this container to hazardous or special waste collection point.

European Waste Catalogue (EWC):

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Other Information:

Do not flush to sewer.

Waste codes should be assigned by the user based on the application for which the product was used.

Do not empty into drains.

Do not let this chemical enter the environment.

Switzerland - Waste Ordinance:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance, ADWO) SR 814.600

<https://www.fedlex.admin.ch/eli/cc/2015/891/en>

SECTION 14: Transport information

14.1 UN number

Classified as non-hazardous for transport.

14.2 Proper name of cargo according to the UN regulatory model

Classified as non-hazardous for transport.

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14.3 Transport hazard class(es)

Classified as non-hazardous for transport.

14.4 Packing group

Classified as non-hazardous for transport.

14.5 Environmental risks

Classified as non-hazardous for transport.

14.6 Special precautions for the user

Classified as non-hazardous for transport.

14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

Not applicable to the product delivered.

SECTION 15: Legal information

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture :

International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No.	EINCES	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Benzenamine,N,N-diethyl-4-(phenylazo)-	2481-94-9	219-616-8	-	-	X	X	KE-08663	X	x
Component	CAS No.	TSCA	TSCA Inventory notification - Active-Inactive		DSL	NDSL	AICS	NZIoC	PICCS
Benzenamine,N,N-diethyl-4-(phenylazo)-	2481-94-9	X	Active		X	-	X	X	X

Legend: X - Listed '-' - Not Listed

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

Authorisation/Restrictions according to EU REACH:

Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification:

Not applicable.

Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements:

Not applicable.

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals:

Not applicable.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

National Regulations:

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

WGK Classification - Water endangering class = 2 (self-classification).

Swiss Regulations:

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

Component	Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81)	Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC)	Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure
Benzenamine, N,N-diethyl-4-(phenylazo)-2481-94-9 (<=100)	Prohibited and Restricted Substances		

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15.2 Chemical safety assessment :

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted.

SECTION 16: Other information

Full text of statements H

H302 - Harmful if swallowed
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H412 - Harmful to aquatic life with long lasting effects

Full text of other abbreviations

Acute Tox.:	Acute Toxicity
Eye Dam.:	Eye Damage
Skin Corr.:	Skin Corrosion
Skin Sens.:	Skin Sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AICS - Australian Inventory of Chemical Substances; ASTM - American Society for Testing of Materials; bw - body weight; CLP - Regulation on Classification, Labelling and Packaging; Regulation (EC) no. 1272/2008; CMR - carcinogenic, mutagenic or toxic to reproduction; DIN - German standard or German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC number - EINECS number; ECx - Concentration associated with x% response; ELx - Loading capacity associated with x% response; EmS - Emergency Programme; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - intermediate inhibitory concentration; ICAO - International Civil Aviation Organisation; IECSC - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a tested population; LD50 - Lethal dose for 50% of a tested population (median lethal dose); MARPOL - International Convention for the Prevention of Pollution from Ships.o.s. - Not Otherwise Specified; NO(A)EC - No detectable (negative) effect on concentration; NO(A)EL - No detectable (negative) effect on level; NOELR - No detectable effect on carrying capacity; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic; PICCS - Philippine Inventory of Chemicals and Substances; (Q)SAR - (Quantitative) Structure-Activity Relationship; REACH - Regulation (EC) no. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulation concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Inventory List; TRGS - Technical Regulation on Hazardous Substances; TSCA - Toxic Substances Control Act (USA); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative.

Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

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More information

Training advice :

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Classification of the mixture:

Acute Tox. 4	H302
Eye Dam. 2	H319
Skin Corr. 2	H315
Skin Sens. 1	H317

Classification procedure :

Calculation method
Calculation method
Calculation method
Calculation method

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No. 1907/2006.

For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2, Number 3, ChemO (SR 813.11 - Ordinance on Protection against Dangerous Substances and Preparations).

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