

Safety Data Sheet

Release 1.0
Revision 09/21/2020
Date of issue 05/29/2021



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1 Identification of the substance

Identification of the substance

Identification of the substance 4-Dimethylaminopyridine

Additional identification DMAP;N,N'-Dimethyl-4-pyridinamine

Biosynth catalog no. FD00992

REACH No. A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.

Use of the substance/preparation

Identified uses enzyme substrate or reagent

Restriction on use not for food or drug use, for laboratory use only

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Emergency Number

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2 Hazards identification

Health Hazards

acute toxicity (Category 4)

acute toxicity (Category 2)

Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 1)

acute toxicity (Category 3)

Single exposure: Respiratory tract irritation (Category 3)

Specific target organ toxicity, single exposure (Category 1)

Environmental Hazards

Chronic aquatic toxicity (Category 2)

Physical Hazards

not classified

Possible Hazards (Summary)

GHS Labeling

Regulatory List
EC1272/08 Regulation (EC) 1272/2008 (GHS/CLP)

Symbol

GHS05 corrosion

Pictogram

GHS06 skull and crossbones

Pictogram

GHS08 health hazard

Pictogram

GHS09 environmental hazards

Pictogram*Signal Word*

Danger Danger

Hazard Statement

H301 Toxic if swallowed.
H310 Fatal in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H370 Causes damage to organs.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 IF SWALLOWED:
P310 Immediately call a POISON CENTER or doctor/physician.
P302 IF ON SKIN:
P352 Wash with plenty of soap and water.
P305 IF IN EYES:
P351 Rinse cautiously with water for several minutes.
P338 Remove contact lenses, if present and easy to do. Continue rinsing.
P403 Store in a well-ventilated place.
P233 Keep container tightly closed.
P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

Additional Information

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

3 Composition/information on ingredients

Substance related information

<i>Substance name</i>	4-Dimethylaminopyridine
<i>Synonymes</i>	DMAP;N,N'-Dimethyl-4-pyridinamine
<i>Cas No.</i>	[1122-58-3]
<i>Formula</i>	C ₇ H ₁₀ N ₂

4 First aid measures

First Aid: Eye

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

First Aid: Skin

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

First Aid: Ingestion

Wash out mouth with water provided person is conscious. Call a physician.

First Aid: Inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Hints for Physician: Treatment

Treat symptomatically.

5 Firefighting measures

Extinguishing Media**Suitable**

foam, dry extinguishing powder, carbon dioxide (CO₂), water spray jet

Hazards During Fire-Fighting

toxic fumes

Protective Equipment for Fire-Fighting

Wear a self-contained breathing apparatus and chemical protective clothing.

Fire-Fighting/Further Advice

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6 Accidental release measures

Personal Precautions

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

Environmental Precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

Methods for Cleaning or Taking Up

not available

Further Accidental Release Measures

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

7 Handling and storage

Handling

Handling advice

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

Storage

Storage temperature

store at 2°C - 8°C

Storage condition

protect from light

Storage Requirements

Keep away from incompatible substances. Keep container tightly closed when not in use.

8 Exposure controles/personal protection

Exposure controles

Industrial Hygiene

Mechanical exhaust required. Safety shower and eye shower.

Personal Protective Equipment

Respiratory Protection

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

Hand Protection

Wear compatible chemical-resistant gloves to prevent skin exposure.

Eye Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

Body Protection

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

Advice on Safe Handling

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

9 Physical and chemical properties

Color

white

Form

powder

Molar Mass

122.17 g/mol

10 Stability and reactivity

Conditions to Avoid

incompatible materials

Substances to Avoid

strong oxidizers

Decomposition Products

nitrogen oxides (NO_x), carbon dioxide (CO₂), carbon monoxide

11 Toxicological information

Acute Toxicity

LD50 oral, Rat, 250 mg/kg

Acute Dermal Toxicity

LD50, Rabbit, 90 mg/kg

Other Relevant Toxicity Information

We are not aware of any toxicology data.

12 Ecological Information

Additional Ecotoxicological Remarks

Memo

Toxic to aquatic life.

Biodegradation

no data available

Bioaccumulation

no data available

Distribution in Environment

no data available

13 Disposal considerations

Advice on Disposal and Packaging

Advice on Disposal

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

Advice on Packaging

not available

14 Transport information

Road Transport (ADR/GGVS)

UN No. 2811

Class(es) 6.1

Packaging group II

Proper Shipping Name Toxic solid, organic, n.o.s. (4-Dimethylaminopyridine)

Air Transport (IATA)

UN No. 2811

Class(es) 6.1

Packaging group II

Proper Shipping Name Toxic solid, organic, n.o.s. (4-Dimethylaminopyridine)

15 Other regulations

Other Regulations

not available

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
4-Dimethylaminopyridine	-----	-----	-----

16 Additional information

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