

Safety Data Sheet

Release 1.0
Revision 10/17/2019
Date of issue 05/29/2021

1 Identification of the substance

Identification of the substance

Identification of the substance 2,2'-Dipyridyl diselenide

Additional identification 2-pyridin-2-ylselanylselanylpyridine

Biosynth catalog no. FD11023

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 basic Intermediates

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

Environmental Hazards

not classified

Health Hazards

not classified

Physical Hazards

not classified

GHS Labeling

Symbol
GHS06 skull and crossbones

Pictogram



GHS08 health hazard

Pictogram



GHS09 environmental hazards

Pictogram*Signal Word*

Danger Danger

Hazard Statement

H301 Toxic if swallowed.
H331 Toxic if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statement

P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P301 IF SWALLOWED:
P310 Immediately call a POISON CENTER or doctor/physician.
P304 IF INHALED:
P340 Remove casualty to fresh air and keep at rest in a position comfortable for breathing.
P311 Call a POISON CENTER or doctor/physician.
P314 Get medical advice/attention if you feel unwell.

3 Composition/information on ingredients**Substance related information**

Substance name 2,2'-Dipyridyl diselenide
Synonymes 2-pyridin-2-ylselanylpyridine
Cas No. [59957-75-4]
Formula C₁₀H₈N₂Se₂

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 <-15°C

Storage Requirements

Warm to Room Temperature before use. 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**

red

Form

powder

Molar Mass

314.1 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), sulphur oxides, carbon monoxide

11 Toxicological information**Other Relevant Toxicity Information**

We are not aware of any toxicology data.

12 Ecological Information**Additional Ecotoxicological Remarks**

Memo

Very 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)**

<i>UN No.</i>	3283
<i>Class(es)</i>	6.1
<i>Packaging group</i>	II
<i>Proper Shipping Name</i>	SELENIUM COMPOUND, SOLID, N.O.S. (2,2'-Dipyridyl diselenide)

Air Transport (IATA)

<i>UN No.</i>	3283
<i>Class(es)</i>	6.1
<i>Packaging group</i>	II
<i>Proper Shipping Name</i>	SELENIUM COMPOUND, SOLID, N.O.S. (2,2'-Dipyridyl diselenide)

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)
2,2'-Dipyridyl diselenide	-----	-----	-----

16 Additional information

GHS Labeling*Symbol*

GHS06	skull and crossbones
GHS08	health hazard
GHS09	environmental hazards

Signal Word

Danger	Danger
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