

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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

1.1 Product identifier

Trade name : 3-Aminopyridine

Product code : A0413 EC-No. : 207-322-2

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

Use of the Substance/Mixture : Use as laboratory reagent

1.3 Details of the supplier of the safety data sheet

Company : TCI EUROPE N.V.

Address : Boereveldseweg 6 - Haven 1063, B-2070 Zwijndrecht, Belgium

Telephone : +32 (0)3 735 07 00
Telefax : +32 (0)3 735 07 01
E-mail address of person respon- : sales-eu@tcichemicals.com

E-mail address of person responsible for the SDS

1.4 Emergency telephone number

Emergency telephone number : +44 844 892 0111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 2 H300: Fatal if swallowed. Acute toxicity, Category 2 H330: Fatal if inhaled.

Acute toxicity, Category 2

Skin irritation, Category 2

Eye irritation, Category 2

Short-term (acute) aquatic hazard, Category 1

H310: Fatal in contact with skin.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category H410: Very toxic to aquatic life with long lasting effects.

1

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word : Danger

Hazard statements : H300 + H310 + H330 Fatal if swallowed, in contact with skin or if

inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a

POISON CENTER/ doctor. Rinse mouth.

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P302 + P352 + P310 IF ON SKIN: Wash with plenty of water.

Immediately call a POISON CENTER/ doctor.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER/ doctor. P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

2.3 Other hazards

This substance/mixture contains no components considered to be either 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 components considered 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 levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered 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 levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : 3-Aminopyridine EC-No. : 207-322-2

Components

Chemical name	CAS RN EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
3-Aminopyridine	462-08-8 207-322-2	>= 90 - <= 100	M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor/ physician.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off with soap and plenty of water.

Immediately call a POISON CENTER or doctor/ physician.

In case of eye contact : Rinse with plenty of water.

If easy to do, remove contact lens, if worn.

Immediately call a POISON CENTER or doctor/ physician.

If swallowed : Immediately call a POISON CENTER or doctor/ physician.

Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

None known.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry powder, Foam, Water spray, Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

No information available.

5.3 Advice for firefighters

Special protective equipment for

firefighters

Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circum-

stances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire

area if it is safe to do so.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment. Keep people away from and

upwind of spill/leak. Entry to non-involved personnel should be con-

trolled around the leakage area by roping off, etc.

6.2 Environmental precautions

Environmental precautions : Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and arrange disposal without creating dust.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : Prevent dispersion of dust.

Local/Total ventilation : Ensure adequate ventilation.

Handle product only in closed system or provide appropriate exhaust

ventilation at machinery.
Use a local exhaust ventilation.

Advice on safe handling : Avoid contact with skin, eyes and clothing.

Wear personal protective equipment.

Wash hands and face thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers

Keep container tightly closed. Store in a cool and shaded area. Keep

in a well-ventilated place. Protect from moisture. Keep under inert

gas. Store locked up.

Storage class (TRGS 510) : 6.1A

7.3 Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Safety glasses, Safety goggles, Face-shield Eye/face protection

Hand protection Impervious gloves

Skin and body protection Impervious protective clothing

Respiratory protection Dustproof gas mask

Self-contained breathing apparatus

*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Solid form Colour white - orange No data available Odour Odour Threshold No data available

62 °C Melting point/freezing point Boiling point/boiling range 248 °C

No data available Flammability Upper explosion limit/Upper No data available

flammability limit

Lower explosion limit/Lower

flammability limit

Flash point No data available

Auto-ignition temperature 628 °C

No data available Decomposition temperature

10 (20 °C) рΗ

Concentration: 100 g/l (as aqueous solution)

No data available

Viscosity

Viscosity, dynamic No data available Viscosity, kinematic No data available

Solubility(ies)

Water solubility > 1 000 g/l (20 °C)

very soluble Solvent: Ether

Solubility in other solvents

soluble

Solvent: Alcohol

soluble

Solvent: Benzene

soluble

Solvent: Acetone

soluble

Partition coefficient: n-

octanol/water

0,48

Vapour pressure No data available Relative density No data available

Relative vapour density 3,25

Particle characteristics No data available

9.2 Other information

Molecular weight 94,12 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : None under normal processing.

10.4 Conditions to avoid

Conditions to avoid : Exposure to air., Exposure to moisture

10.5 Incompatible materials

Materials to avoid : Oxidizing agents,

10.6 Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : Assessment: The component/mixture is highly toxic after single in-

gestion.

Acute inhalation toxicity : Assessment: The component/mixture is highly toxic after short term

inhalation.

Acute dermal toxicity : Assessment: The component/mixture is highly toxic after single con-

tact with skin.

Components:

3-Aminopyridine:

Acute oral toxicity : LD50 (laboratory animal): 178 mg/kg

Assessment: The component/mixture is highly toxic after single in-

gestion.

Acute inhalation toxicity : Assessment: The component/mixture is highly toxic after short term

inhalation.

Acute dermal toxicity : Assessment: The component/mixture is highly toxic after single con-

tact with skin.

Acute toxicity (other routes of

administration)

LD50 (Mouse): 28 mg/kg

Application Route: Intraperitoneal injection

LD50 (Mouse): 24 mg/kg Application Route: Intravenous

LD50 (Mouse): 30 mg/kg

Application Route: Subcutaneous

Skin corrosion/irritation

Product:

Result : Skin irritation

Components:

3-Aminopyridine:

Result : Skin irritation

Serious eye damage/eye irritation

Product:

Result : Eye irritation

Components:

3-Aminopyridine:

Result : Eye irritation

Respiratory or skin sensitisa-

tion

No information available.

Germ cell mutagenicity No information available. Carcinogenicity No information available. Reproductive toxicity No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. Repeated dose toxicity No information available. **Aspiration hazard** No information available. RTECS No. US1650000 (3-Aminopyridine)

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered 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 levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

3-Aminopyridine:

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 8.1 ppm

Exposure time: 48 h

LC50 (Oryzias latipes (Japanese medaka)): 8,6 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 7,1 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 0,73 mg/l

Exposure time: 72 h

M-Factor (Acute aquatic toxicity) M-Factor (Chronic aquatic toxici-

: 1

ty)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

3-Aminopyridine:

Partition coefficient: n- : 0,48

octanol/water

12.4 Mobility in soil

Components:

3-Aminopyridine:

Distribution among environmen- : Koc: 45

tal compartments

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be

either persistent, bioaccumulative and toxic (PBT), or very persistent

and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered 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 levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Disposal in accordance with local and national regulations.

Entrust disposal to a licensed waste disposal company.

Contaminated packaging : Disposal in accordance with local and national regulations.

Before disposal of used container, remove contents completely.

SECTION 14: Transport information

14.1 UN number or ID number

 ADR
 : UN 2671

 IMDG
 : UN 2671

 IATA
 : UN 2671

14.2 UN proper shipping name

ADR : AMINOPYRIDINES

IMDG : AMINOPYRIDINES (O-, M-, P-)

IATA : Aminopyridines

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR : 6.1 **IMDG** : 6.1

IATA : 6.1

14.4 Packing group

ADR

Packing group : II
Classification Code : T2
Hazard Identification Number : 60
Tunnel restriction code : (D/E)

IMDG

Packing group : II

EmS Code : F-A, S-A

IATA (Cargo)

Packing instruction (cargo aircraft)
Packing instruction (LQ) : Y644
Packing group : II

IATA (Passenger)

Packing instruction (passenger : 669

aircraft)

Packing instruction (LQ) : Y644
Packing group : II

14.5 Environmental hazards

ADR

Environmentally hazardous : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the mar- : Not applicable

ket and use of certain dangerous substances, mixtures and

articles (Annex XVII)

Regulation (EC) No 649/2012 of the European Parliament and : Not applicable

the Council concerning the export and import of dangerous

chemicals

REACH - Candidate List of Substances of Very High Concern : Not applicable

for Authorisation (Article 59).

Regulation (EC) No 1005/2009 on substances that deplete the : Not applicable

ozone layer

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

REACH - List of substances subject to authorisation (Annex : Not applicable

XIV)

Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

CH BAGREG : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AICS : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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Further information

This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

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