

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

2-ETHYL-5-NITROANILINE

Revision date 24.03.2025

Version 6

Replaces version from 07.04.2022

1. Identification of the substance/Mixture and of the company/undertaking

1.1 Product identifier

Product name 2-Ethyl-5-nitroaniline

CAS-No. 20191-74-6

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

against

Identified uses Laboratory chemicals, Manufacture of substances.

1.3 Details of the supplier of the safety data sheet

Name Valsynthese SA

Factory address Valsynthese SA

Fabrikstrasse 48 PO Box 636

3900 Brig / Switzerland

Office address Valsynthese SA

Societe Suisse des Explosifs Group

PO Box 636

3900 Brig / Switzerland

Phone +41 27 922 71 11 E-Mail (Responsible person):

msds@explosif.ch

1.4 Emergency Phone +41 27 922 71 11 (only during office hours) or

Number Toxicological Information Centre in Switzerland: Tel. 145

or +41 (0) 44 251 51 51



2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity, Oral (Category 4), H302 Acute toxicity, Dermal (Category 4), H312 Acute toxicity, Inhalation (Category 4), H332

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Hazard pictogram(s)



Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed. H312 Harmful in contact with skin.

H332 Harmful if inhaled.

Precautionary statement(s)

P261 Avoid breathing dust.

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing.

P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel

unwell.

P302+P352+P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER

doctor if you feel unwell.

P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Call a POISON CENTER/ doctor if you feel unwell.

Supplemental Hazard

Statements

none

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.

3. Composition / Information on ingredients

3.1 Substance

Product name 2-Ethyl-5-nitroaniline

Molecular formula $C_8H_{10}N_2O_2$ Molecular weight 166.18g/mol Cas-No. 20191-74-6

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
2-Ethyl-5-nitroaniline			
CAS-No.	20191-74-6	Acute Tox. 4; H302; H312; H332	<=100%

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16.

4. First-aid measures

4.1 Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

If swallowed After swallowing: immediately make victim drink water (two

glasses at most). Consult aphysician.

If inhaled After inhalation: fresh air. If breathing stops: mouth-to-

mouth breathing or artificial respiration. Oxygen if necessary.

Immediately call in physician.

In case of skin contact: Take off immediately all

contaminated clothing. Rinse skin with water/ shower.

Consult a physician.

contact lenses.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available



5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

Water, Foam, Carbon dioxide (CO2), Dry powder.

Unsuitable extinguishing

For this substance/mixture no limitations of extinguishing

media

agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for fire fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Additional information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For further and detailed information see section 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture.



7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry.

Storage class

Storage class (TRGS 510): 11: Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls / Personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

appropriate government standards such as NIOSH (US) or

EN 166(EU). Safety glasses.

Skin protection This recommendation applies only to the product stated in the

safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH,

D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Body Protection protective clothing.

Respiratory protection required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used

respiratory protection system.

Recommended Filter type: Filter type P2.

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out

according to the instructions of the producer. These

measures have to be properly documented.



Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state solid

No data available Color Odor No data available No data available pH value Melting point/freezing point No data available Initial boiling point and No data available

boiling range

Flash point No data available No data available Evaporation rate Flammability (solid, gas) No data available Upper/lower flammability No data available

or explosive limits

No data available Vapour pressure Density No data available Relative density No data available Water solubility No data available Partition coefficient: n-Log Pow: 1.879

octanol/water

Auto-ignition temperature No data available Decomposition temperature No data available

Viscosity Viscosity, kinematic: No data

available

Viscosity, dynamic: No data

available

Particle No data available

characteristics

No data available Explosive properties Oxidizing properties No data available

9.2 Other information

No data available



10. Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

In the event of fire: see section 5

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity LD50 Oral - Rat - 1.100 mg/kg

LC50 Inhalation - 4 h - 1,5 mg/l - dust/mist

(Acute toxicity estimate) LD50 Dermal - 1.100 mg/kg

Skin corrosion/irritation No data available Serious eye damage/eye No data available

irritation

sensitisation

Respiratory or skin Prolonged or repeated exposure may cause allergic reactions

in certain sensitive individuals. The preceding data, or interpretation of data, was determined using Quantitative

Structure Activity Relationship (QSAR) modelling.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT-single exposure

Aspiration hazard

No data available

No data available

No data available

No data available



11.2 Additional information

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.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulation potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB 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

13. Disposal considerations

13.1 Waste treatment methods

Product

No data available



14. Transport information

14.1 UN Number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous IMDG: Not dangerous goods IATA: Not dangerous goods

goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packing group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

Further information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

16. Other information

16.1 Information regarding the revision of the safety data sheet

This material safety data sheet has been revised completely and is considered new without any previous version.



16.2 Full text of H-Statements referred to under sections 2 and 3

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

16.3 Additional information

The information contained herein is in conformity with EU Directive EC 1907/2006 and EC 1272/2008, and is believed to be accurate and represents the best information currently available to us on the date of publication. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Valsynthese SA be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Valsynthese SA has been advised of the possibility of such damages.

