

# **Material Safety Data Sheet**

according to Regulation (EC) No. 1907/2006

#### 2-NITROTHIOPHENE

Revision date 13.03.2025

Version 11

Replaces version from 19.02.2021

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

#### 1.1 Product identifier

Product name 2-Nitrothiophene

CAS-No. 609-40-5 EC-No. 210-190-9

# 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

Information Departement This number is available only during office hours.

Phone +41 27 922 71 11 E-Mail (Responsible person): msds@sse-group.com

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

Toxicological Information Centre in Switzerland: Tel. 145

or +41 (0) 44 251 51 51



Number

# 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, inhalativ (Category 4), H332 Germ cell mutagenicity (Category 2), H341

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.

H341 Suspected of causing genetic defects.

Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face

protection

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if

you feel unwell.

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell. P308+P313 IF exposed or concerned: Get medical advice/attention.

Supplemental Hazard none

Statements

**2.3 Other hazards**No data available

# 3. Composition / Information on ingredients

#### 3.1 Substance

Product name 2-Nitrothiophene

Molecular formula C<sub>4</sub>H<sub>3</sub>NO<sub>2</sub>S



Molecular weight 129.14 g/mol CAS-No. 609-40-5 EC-No. 210-190-9

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

the state of the s			
Component		Classification	Concentration
2-Nitrothiophene			
CAS-No.	609-40-5	Acute Tox. 4; Muta. 2; H302; H312;	<=100%
EC-No.	210-190-9	H332; H341	

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.

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### 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

# Fire fighting measures

## 5.1 Extinguishing media

Suitable extinguishing Use water spray, alcohol-resistant foam, dry chemical or media carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Sulfur oxides

#### 5.3 Advice for fire fighters

In the event of fire, wear self-contained breathing apparatus.



#### 5.4 Additional information

No data available

## 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 protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

## **Hygiene measures**

General industrial hygiene practice.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

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

Light sensitive.

## Storage class

Storage class (TRGS 510): 13: Non 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

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

## **Personal protective equipment**

Eye/face protection Safety glasses with side-shields conforming to EN166 Use

equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or

EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use.

Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the

specifications of EU Directive 89/686/EEC and the standard EN

374 derived from it.

Body Protection Complete suit protecting against chemicals. The type of

protective equipment must be selected according to the concentration and amount of the dangerous substance at the

specific workplace.

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.

Environmental exposure

controls

Do not let product enter drains.

# 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state crystalline Color yellow

Odour No data available pH value No data available

Melting point/freezing point Melting point/range: 43 - 45 °C



Initial boiling point and

boiling range

224 - 225 °C at 1013 hPa

Flash point 94 °C - closed cup Evaporation rate No data available 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 No data available Water solubility No data available Partition coefficient: n-

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

Explosive properties No data available Oxidizing properties No data available

#### 9.2 Other information

No data available

# 10. Stability and reactivity

#### 10.1 Reactivity

No data available

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

No data available

#### 10.5 Incompatible materials

Strong oxidizing agents, Strong bases.

## 10.6 Hazardous decomposition products

In the event of fire: see section 5



# 11. Toxicological information

## 11.1 Information on toxicological effects

Acute toxicity Oral: No data available

Inhalation: No data available Dermal: No data available

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

irritation

Eye damage/irritation No data available Respiratory or skin No data available

sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT-single exposure

STOT-repeated exposure

Aspiration hazard

No data available

No data available

No data available

#### 11.2 Additional information

RTECS: XN0030000

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

PBT/vPvB assessment not available as chemical safety assessment not required/not Conducted.

#### 12.6 Endocrine disrupting properties

No data available



#### 12.7 Other adverse effects

No data available

## 13. Disposal considerations

#### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

## 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: - IMDG Marine pollutant: - IATA: -

## 14.6 Special precautions for user

#### **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.

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors



REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

Regulation (EC) No 649/2012 of the European : Parliament and the Council concerning the export and import of dangerous chemicals REACH - Candidate List of Substances of Very : High Concern for Authorisation (Article 59).

This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006.

Listed substance / Sunset Date

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

Regulation (EC) No 1005/2009 on substances

that deplete the ozone layer

Regulation (EC) No 850/2004 on persistent

organic pollutants

#### 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.

H341 Suspected of causing genetic defects.

#### 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.

