

4-Nitroquinoline-N-Oxide

Material Safety Data Sheet according to 1907/2006/EC Article 31 (REACH)

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND THE COMPANY UNDERTAKING

Product name: 4-Nitroquinoline-N-oxide

Product code: PPC-NQ02 Synonyms: 4-NQ0

Recommended uses: Not for use in humans, not for diagnostic purposes. Research use only. **Supplier:** Xenometrix AG, Gewerbestrasse 25, CH-4123 Allschwil, Switzerland

Emergency contact numbers: +41 61 482 14 34
Country of origin: Switzerland
HS Code: 3822.1900

2. HAZARDS IDENTIFICATION

Classification: According to regulation (EC) No 1272/2008[EU-GHS/CLP] not a hazardous

substance or mixture.

Label element: Keep out of the reach of children

Pictogram:

Signal word: Warning

Hazard statement(s): H302+H312+H332 Harmful if swallowed, in contact with skin or if

inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

Precautionary statement(s): P202 Do not handle until all safety precautions have been

read and understood.

P261 Avoid breathing dust.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P281 Use personal protective equipment as required.
P362+P364 Take off contaminated clothing and wash it before

reuse.

P301 + P312 IF SWALLOWED: call a POISON CENTER or

doctor/physician if you feel unwell.

IF ON SKIN: Wash with plenty of water.

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

P304+340 IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical

advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with

local/regional/national/international regulation.

Other hazards: No data available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Product: Molecular formula $C_9H_6N_2O_3$

Molecular weight 190.16 g/mol

Description: Component is used as positive control in an assay.

CAS-No: 56-57-5
EINECS Number: 200-281-1
Index-No: No data available
Other information: Component is a powder

Document-No.		Valid from Release Date
REC-82-07_X	MSDS	01.02.2023
Version-No.		Valid until Cancellation Date
5.0	RECORDS	
PEC-82-07 X 5.0 MSDS PPC-NO02 4-Nitroquinoline-N-Ovoide docy		Page 1 of 5



FIRST AID MEASURES

Eye contact: Remove contact lenses. Rinse thoroughly with plenty of water for at least

15 minutes. If contact lenses can't remove, continue washing. Consult a

physician or an expert.

Skin contact: Remove contaminated clothing and wash before renew use. Wash off

with soap and plenty of water. Consult a physician.

Move person into fresh air and control respiration. If not breathing, give Inhalation:

artificial respiration. Consult a physician.

Never give anything by mouth to an unconscious person. Consult a Ingestion:

> physician. Never cause nausea. Rinse mouth with water. Concerned person should drink water, better milk (two glasses at most). If nausea:

Beware swallowing and keeping in recovery position.

FIRE-FIGHTING MEASURES

Extinguishing media: In case of fire use water spray, dry chemical powder, carbon dioxide, or

alcohol-resistant foam.

Special hazards arising from the substance or mixture:

Carbon oxides, nitrogen oxides (NOx).

Take care as it may decompose upon combustion or in high temperatures

to generate poisonous fume.

Advice for firefighters: 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.

ACCIDENTAL RELEASE MEASURES

Personal precautions: Use proper personal protective equipment as indicated in Section 8.

> Wear self-contained breathing apparatus, eye protection and gloves. Keep personal hygiene. Avoid contact with skin and eyes. Avoid dust formation. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from

and upwind of spill/leak.

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 and materials for containment and cleaning up: Sweep up and place the material in appropriate container for disposal and dispose of as hazardous waste. Ventilate area, clean up spills and wash spill site after material pickup is complete, observing precautions in

the Protective Equipment section.

7. HANDLING AND STORAGE

Handling: Wear appropriate protective clothing - see Section 8. Wash hands and

> face thoroughly after handling. Use only under a chemical fume hood. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin, eyes and clothing. Avoid

> ingestion and inhalation. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal

measures for preventive fire protection.

Storage: Store in the original container as much as possible. Recommended

> storage temperature: 2 - 8°C; Keep container tightly closed. Store away from incompatible materials such as oxidizing agents. Light sensitive.

Air-sensitive. Store under inert gas. Protect from light.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Document-No.		Valid from Release Date
REC-82-07_X	MSDS	01.02.2023
Version-No.		Valid until Cancellation Date
5.0	RECORDS	
REC-82-07 X 5.0 MSDS PPC-NQC	2 4-Nitroquinoline-N-Oxoide.docx	Page 2 of 5



Eye protection: Wear safety glasses with side protection. Wear appropriate protective

safety glasses with side-shields conforming to EN166, chemical safety goggles or face-shield (min. 8-inch) as described by OSHA's eye and face protection regulations. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US)

or EN 166 (EU).

Skin protection: Wear appropriate protective gloves to prevent skin exposure, as defined

in EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection: Appropriate protective clothing, overalls.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate

use a full-face particle respirator type N95 (US) or type P1 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to brown solid in a Vial

Odour: No data available pH: No data available Melting point: 154 - 156 °C **Boiling point:** No data available Flash point: No data available **Evaporation rate:** No data available No data available Flammability: Self-ignition temp.: No data available Danger of Explosion: No data available lower explosion limit: No data available upper explosion limit: No data available No data available **Decomposition Temp.: Kinematic Viscosity:** No data available Vapor Pressure: No data available No data available Relative Density (20°C): Relative Gas Density (20°C): No data available Solubility (20°C): Soluble in DMSO

Partition coefficient

n-octanol/water: 3.00

Log KOW: No data available

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal storage conditions and recommended use.

Conditions to avoid: High humidity or direct sunlight.

Incompatibilities with other

materials:

Strong oxidizing agents.

Hazardous decomposition

products:

Nitrogen oxides (NOx), carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50: mouse: 132 mg/kg.

LC50: No data available.

RTECS#: LL5075000.

Skin corrosion/irritation: May causes skin irritation. **Serious eye damage/eye irritation:** Causes serious eye irritation.

Respiratory or skin sensitization: May be harmful if inhaled. May cause headache and nausea.

Document-No.		Valid from Release Date
REC-82-07_X	MSDS	01.02.2023
Version-No.		Valid until Cancellation Date
5.0	RECORDS	
REC-82-07_X_5.0_MSDS_PPC-NQ02_4-Nitroquinoline-N-Oxoide.docx		Page 3 of 5



Carcinogenicity rat: Oral: Tumorigenic: Neoplastic by RTECS criteria. Liver: Tumors. Skin and

appendages: Other: Tumors.

Oral: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver:

Tumors. Kidney, Ureter, Bladder: Tumors.

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.

Carcinogenicity mouse: Oral: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver:

Tumors. Kidney, Ureter, Bladder: Tumors.

Skin: Tumorigenic: Neoplastic by RTECS criteria. Lungs, Thorax, or

Respiration: Tumors. Gastrointestinal: Tumors.

Implant: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Kidney, Ureter, Bladder: Tumors. Tumorigenic: Tumors at site or

application.

Reproductive toxicity:Data not available.Specific target organ toxicity:No data availableAspiration hazard:Data not available.

Signs and symptoms of exposure: To the best of our knowledge, the chemical, physical and toxicological

properties have not been thoroughly investigated.

Target organs: Data not available.

Potential health effects: Eye: May cause serious eye irritation.

Skin: May be harmful by skin absorption. May cause skin irritation.

Ingestion Harmful if swallowed.

Inhalation: May be harmful if inhaled. May cause respiratory tract

irritation.

Chronic: No information found.

Other: No data available.

12. ECOLOGICAL INFORMATION

Toxicity:

Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

Result of PBT and vPvB

No data available
No data available
No data available

assessment:

Other adverse effects: No data available

13. DISPOSAL CONSIDERATION

Waste treatment methods: Avoid discharge in environment. Treatment key: Ask your local administration.

Contaminated packaging/ product: Special precaution:

No data available. No data available.

Other:

Observe all federal, state and local environmental regulations. Mix or dissolve the material in a combustible solvent and burn in chemical incinerator equipped with an afterburner and scrubber. Contact a

licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

ADR / RID Not classified as hazardous for transport.

IMDG Not classified as hazardous for transport.

IATA Not classified as hazardous for transport.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture: no data available. Chemical Safety Assessment: A chemical safety assessment was not carried out for this product

Document-No.		Valid from Release Date
REC-82-07_X	MSDS	01.02.2023
Version-No.		Valid until Cancellation Date
5.0	RECORDS	
REC-82-07_X_5.0_MSDS_PPC-NQ02_4-Nitroquinoline-N-Oxoide.docx		Page 4 of 5



16. ADDITIONAL INFORMATION

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Document-No.		Valid from Release Date
REC-82-07_X	MSDS	01.02.2023
Version-No.		Valid until Cancellation Date
5.0	RECORDS	
REC-82-07_X_5.0_MSDS_PPC-NQ02_4-Nitroquinoline-N-Oxoide.docx		Page 5 of 5