


## 4-NITROQUINOLINE-N-OXIDE

### 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND THE COMPANY UNDERTAKING

<b>Chemical name:</b>	4-Nitroquinoline-N-oxide
<b>Product code:</b>	PPC-NQ02
<b>Synonyms:</b>	–
<b>Recommended uses:</b>	For R&D purposes
<b>Supplier:</b>	Xenometrix AG, Gewerbestrasse 25, CH-4123 Allschwil, Switzerland
<b>Emergency contact numbers:</b>	Telephone: +41 61 482 14 34 Fax: +41 61 482 20 72

### 2. HAZARDS IDENTIFICATION

<b>Classification:</b>	According to regulation (EC) No 1272/2008	
<b>Labelling and precautionary statements:</b>	Pictogram:	
<b>Hazard statement(s):</b>	Signal word:	Warning.
	H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
	H341	Suspected of causing genetic defects.
	H350	May cause cancer
<b>Precautionary statement(s):</b>	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.
	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 INHALED: Remove person to fresh air and keep comfortable for breathing.
	P405	IF exposed or concerned: Get medical advice/attention.
	P501	Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulation.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Molecular formula:</b>	C <sub>9</sub> H <sub>6</sub> N <sub>2</sub> O <sub>3</sub>
<b>Molecular weight:</b>	190.16
<b>CAS Number:</b>	56-57-5

EINECS Number: 210-138-5

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#### 4. FIRST AID MEASURES

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<b>Eye contact:</b>	Immediately flush eye with copious amounts of water for at least 15 minutes. Get medical aid immediately.
<b>Skin contact:</b>	In case of contact remove contaminated clothing and immediately wash affected areas with copious quantities of water and soap for at least 15 minutes. Get medical aid immediately. Wash contaminated clothing before reuse.
<b>Inhalation:</b>	Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Get medical aid.
<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. Wash out mouth with water provided person is conscious. Call a physician.

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#### 5. FIRE-FIGHTING MEASURES

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<b>Extinguishing media:</b>	In case of fire use water spray, dry chemical powder, carbon dioxide, or alcohol-resistant foam.
<b>Special hazards arising from the substance or mixture:</b>	Carbon oxides, nitrogen oxides (NO <sub>x</sub> ). Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

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#### 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal precautions:</b>	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, vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
<b>Environmental precautions:</b>	Do not let product enter the drains.
<b>Spills/Leaks:</b>	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.

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#### 7. HANDLING AND STORAGE

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<b>Handling:</b>	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.
<b>Storage:</b>	Store in a cool, dry, well-ventilated area. Keep container tightly closed. Store away from incompatible materials such as oxidizing

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

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## 8. EXPSURE CONTROLS / PERSONAL PROTECTION

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<b>Eye protection:</b>	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).
<b>Skin protection:</b>	Wear appropriate protective gloves to prevent skin exposure, as defined in EU Directive 89/686/EEC and the standard EN 374 derived from it.
<b>Body protection:</b>	Appropriate protective clothing, overalls.
<b>Respiratory protection:</b>	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).

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance:</b>	White to brown solid.
<b>Odour:</b>	Data not available / does not apply.
<b>Odour threshold:</b>	Data not available / does not apply.
<b>pH:</b>	Data not available / does not apply.
<b>Melting point:</b>	154–156°C.
<b>Boiling point:</b>	Data not available / does not apply.
<b>Flash point:</b>	Data not available / does not apply.
<b>Evaporation rate:</b>	Data not available / does not apply.
<b>Flammability:</b>	Data not available / does not apply.
<b>Flammability or explosive limits:</b>	Data not available / does not apply.
<b>Vapor pressure:</b>	Data not available / does not apply.
<b>Vapor density:</b>	Data not available / does not apply.
<b>Relative density:</b>	Soluble (ether, alcohols).
<b>Solubility:</b>	
<b>Partition coefficient</b>	3.00.
<b>n-octanol/water :</b>	Data not available / does not apply.
<b>Auto-ignition temperature:</b>	Data not available / does not apply.
<b>Decomposition temperature:</b>	Data not available / does not apply.
<b>Viscosity:</b>	Data not available / does not apply.

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## 10. STABILITY AND REACTIVITY

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<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	Data not available.

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<b>Incompatibilities with other materials:</b>	Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	Carbon oxides, nitrogen oxides (NOx).

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## 11. TOXICOLOGICAL INFORMATION

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<b>RTECS #:</b>	LL5075000.
<b>Acute toxicity:</b>	LD50 Intraperitoneal: mouse: 132 mg/kg.
<b>Skin corrosion/irritation:</b>	Data not available.
<b>Serious eye damage/eye irritation:</b>	Data not available.
<b>Respiratory or skin sensitization:</b>	Data not available.
<b>Germ cell mutagenicity:</b>	Data not available.
<b>Carcinogenicity:</b>	
<b>Rat:</b>	Oral: Tumorigenic: Neoplastic by RTECS criteria. Liver: Tumors. Skin and appendages: Other: Tumors.
<b>Rat:</b>	Oral: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Kidney, Ureter, Bladder: Tumors.
<b>Rat:</b>	Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.
<b>Mouse:</b>	Oral: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Kidney, Ureter, Bladder: Tumors.
<b>Mouse:</b>	Skin: Tumorigenic: Neoplastic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors. Gastrointestinal: Tumors.
<b>Mouse:</b>	Implant: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Kidney, Ureter, Bladder: Tumors. Tumorigenic: Tumors at site or application.
<b>Reproductive toxicity:</b>	Data not available.
<b>Specific target organ toxicity:</b>	Single exposure: Data not available. Repeated exposure: Data not available.
<b>Aspiration hazard:</b>	Data not available.
<b>Signs and symptoms of exposure:</b>	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
<b>Target organs:</b>	Data not available.
<b>Potential health effects:</b>	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.

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## 12. ECOLOGICAL INFORMATION

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Data not available.

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**13. DISPOSAL CONSIDERATION**

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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.

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**14. TRANSPORT INFORMATION**

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<b>ADR / RID</b>	Not classified as hazardous for transport.
<b>IMDG</b>	Not classified as hazardous for transport.
<b>IATA</b>	Not classified as hazardous for transport.

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**15. REGULATORY INFORMATION**

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

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**16. ADDITIONAL INFORMATION**

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None.