

# SAFETY DATA SHEET

Version 6.4 Revision Date 03/02/2024 Print Date 06/08/2024

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

#### **Product identifiers** 1.1

Product name

: 3-Nitrophenol

Product Number	:	163031
Brand	:	Sigma-Aldrich
CAS-No.	:	554-84-7

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

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Identified uses
             : Laboratory chemicals, Synthesis of substances
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Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

#### 1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone	-	+1 314 771-5765
Fax	:	+1 800 325-5052
Emergency telephone		

# 1.4

Emergency Phone #	: 800-424-9300 CHEMTREC (USA) +1-703-
	527-3887 CHEMTREC (International) 24
	Hours/day; 7 Days/week

# SECTION 2: Hazards identification

# 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16. Sigma-Aldrich - 163031

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# 2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Danger
Hazard Statements H302 H315 H318	Harmful if swallowed. Causes skin irritation. Causes serious eye damage.
Precautionary Statements P264 P270 P280 P301 + P312 + P330 P302 + P352 P305 + P351 + P338 + P310	Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P332 + P313 P362 P501	If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. Dispose of contents/ container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Component	omponent Classification		
3-nitrophenol			
	Acute Tox. 4; Skin Irrit. 2	-	
	Eye Dam. 1; H302, H315 H318	,	

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

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# SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). 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

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

# Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

# Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing 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 firefighters

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 Further 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.

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# **SECTION 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.

For personal protection see section 8.

- **6.2 Environmental precautions** Do not let product enter drains.
- **6.3 Methods and materials 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 disposal see section 13.

# **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling** For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

# Storage conditions

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

#### Storage class

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

# 7.3 Specific end use(s)

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

# SECTION 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

# Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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# Personal protective equipment

# Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

# **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

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).

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**

Recommended Filter type: Filter A-(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.

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.

# **Control of environmental exposure**

Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

c) Odor Threshold

b) Odor

No data available No data available

Form: powder Color: light yellow

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d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 96 - 98 °C (205 - 208 °F) - lit.
f)	Initial boiling point and boiling range	194 °C 381 °F at 93 hPa - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
I)	Vapor density	No data available
m)	Density	1.480 g/cm3
	Relative density	No data available
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
Oth	er safety informatio	n

9.2 Other safety information No data available

# **SECTION 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

Risk of explosion with: Reducing agents

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conc. sulfuric acid Risk of ignition or formation of inflammable gases or vapours with: alkalines alkali hydroxides acids

- **10.4 Conditions to avoid** no information available
- **10.5 Incompatible materials** No data available
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

#### **SECTION 11: Toxicological information**

#### **11.1** Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 328 mg/kg Inhalation: No data available Dermal: No data available No data available

# Skin corrosion/irritation

Skin - Rabbit Result: Skin irritation - 24 h

# Serious eye damage/eye irritation

Eyes - Rabbit Result: Severe eye irritation - 24 h

**Respiratory or skin sensitization** No data available

Germ cell mutagenicity

No data available

#### Carcinogenicity

- IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **Reproductive toxicity**

No data available No data available

#### Specific target organ toxicity - single exposure No data available

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# Specific target organ toxicity - repeated exposure

No data available

# Aspiration hazard

No data available

# **11.2 Additional Information**

# RTECS: SM1925000

Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue., Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fishLC50 - Oryzias latipes - 1.3 mg/l - 48 hToxicity to daphniaEC50 - Daphnia magna (Water flea) - 10 - 35 mg/l - 24 hand other aquaticinvertebrates

- **12.2 Persistence and degradability** No data available
- **12.3 Bioaccumulative 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

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# SECTION 13: Disposal considerations

# 13.1 Waste treatment methods

# Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Packing group: III	
Packing group: III (o-, m-, p-)	EMS-No: F-A, S-A
Packing group: III	
	Packing group: III (o-, m-, p-)

# SECTION 15: Regulatory information

#### SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components		
3-nitrophenol	CAS-No. 554-84-7	Revision Date 2007-03-01
Pennsylvania Right To Know Components 3-nitrophenol	CAS-No. 554-84-7	Revision Date 2007-03-01

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada

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# **SECTION 16: Other information**

# **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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