

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## 3-Nitrophenol $\geq 99\%$ , for synthesis

article number: **4533**  
Version: **GHS 2.0 en**  
Replaces version of: 2021-03-29  
Version: (GHS 1)

date of compilation: 2017-08-21  
Revision: 2024-03-03

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

### 1.1 Product identifier

Identification of the substance **3-Nitrophenol  $\geq 99\%$ , for synthesis**  
Article number 4533  
CAS number 554-84-7

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

Relevant identified uses: Laboratory chemical  
Laboratory and analytical use  
Uses advised against: Do not use for private purposes (household).  
Food, drink and animal feedingstuffs.

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

Carl Roth GmbH + Co. KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:** +49 (0) 721 - 56 06 0  
**Telefax:** +49 (0) 721 - 56 06 149  
**e-mail:** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)  
**Website:** [www.carlroth.de](http://www.carlroth.de)

Competent person responsible for the safety data sheet: Department Health, Safety and Environment

**e-mail (competent person):** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

### 1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 Westmead, NSW	131126	

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Cat-egory	Hazard class and category	Hazard statement
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.3	Serious eye damage/eye irritation	2A	Eye Irrit. 2A	H319

For full text of abbreviations: see SECTION 16

### 2.2 Label elements

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## 3-Nitrophenol $\geq 99\%$ , for synthesis

article number: 4533

### Labelling

#### Signal word

Warning

#### Pictograms

GHS07



#### Hazard statements

H302 Harmful if swallowed  
H319 Causes serious eye irritation

#### Precautionary statements

##### Precautionary statements - prevention

P270 Do not eat, drink or smoke when using this product  
P280 Wear eye protection/face protection

##### Precautionary statements - response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P330 Rinse mouth  
P337+P313 If eye irritation persists: Get medical advice/attention

##### Precautionary statements - disposal

P501 Dispose of contents/container to industrial combustion plant

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Name of substance	3-Nitrophenol
Molecular formula	$C_6H_5NO_3$
Molar mass	139.1 $g/mol$
CAS No	554-84-7

## 3-Nitrophenol $\geq 99\%$ , for synthesis

article number: 4533

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures



##### General notes

Take off contaminated clothing.

##### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

##### Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

##### Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Call a doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

Headache, Cough, Vertigo, Irritation, Dyspnoea

#### 4.3 Indication of any immediate medical attention and special treatment needed

none

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media



##### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings!  
water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

##### Unsuitable extinguishing media

water jet

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

Combustible.

##### Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## 3-Nitrophenol $\geq 99\%$ , for synthesis

article number: 4533

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures



##### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

##### Advice on how to contain a spill

Covering of drains. Take up mechanically.

##### Advice on how to clean up a spill

Take up mechanically. Control of dust.

##### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Provision of sufficient ventilation. Avoid dust formation.

##### Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

##### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Keep container tightly closed.

##### Incompatible substances or mixtures

Observe hints for combined storage.

##### Consideration of other advice:

##### Ventilation requirements

Use local and general ventilation.

##### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

## 3-Nitrophenol $\geq 99\%$ , for synthesis

article number: 4533

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### National limit values

##### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [mg/m <sup>3</sup> ]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
AU	nuisance dusts		WES	10			i	WES

##### Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

i Inhalable fraction

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

#### 8.2 Exposure controls

##### Individual protection measures (personal protective equipment)

##### Eye/face protection



Use safety goggles with side protection.

##### Skin protection



##### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

##### • type of material

NBR (Nitrile rubber)

##### • material thickness

>0,11 mm

##### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## 3-Nitrophenol $\geq 99\%$ , for synthesis

article number: 4533

### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### Respiratory protection



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White). Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	solid
Form	crystalline
Colour	light yellow - yellowish brown
Odour	like: - Phenol
Melting point/freezing point	96 - 98 °C
Boiling point or initial boiling point and boiling range	194 °C at 93 hPa
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	>100 °C
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not applicable
Kinematic viscosity	not relevant
<u>Solubility(ies)</u>	
Water solubility	13.5 g/l at 25 °C
<u>Partition coefficient</u>	
Partition coefficient n-octanol/water (log value):	2 (exp.)
Vapour pressure	not determined
<u>Density and/or relative density</u>	
Density	1.49 g/cm <sup>3</sup> at 20 °C

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## 3-Nitrophenol ≥99 %, for synthesis

article number: 4533

Relative vapour density	Information on this property is not available.
Bulk density	~ 640 kg/m <sup>3</sup>
Particle characteristics	No data available.
<u>Other safety parameters</u>	
Oxidising properties	none

### 9.2 Other information

Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics:	There is no additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

**Danger of explosion:** Reducing agents, Sulphuric acid, concentrated,  
**Risk of ignition:** Alkali hydroxide (caustic alkali), Bases, Acids

### 10.4 Conditions to avoid

Keep away from heat.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Classification acc. to GHS**

#### Acute toxicity

Harmful if swallowed.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	328 mg/kg	rat		TOXNET

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## 3-Nitrophenol $\geq 99\%$ , for synthesis

article number: 4533

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

Data are not available.

#### • If in eyes

Causes serious eye irritation

#### • If inhaled

vertigo, cough, headache, Dyspnoea

#### • If on skin

Frequently or prolonged contact with skin may cause dermal irritation

#### • Other information

Other adverse effects: Liver and kidney damage, Methaemoglobinaemia, Cardiac arrhythmias, Blood pressure drop, Spasms, Cyanosis (blue coloured blood)

### 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### 12.2 Persistence and degradability

Theoretical Oxygen Demand (without nitrification):  $1.15 \text{ mg/mg}$

Theoretical Oxygen Demand (with nitrification):  $1.61 \text{ mg/mg}$

Theoretical Carbon Dioxide:  $1.898 \text{ mg/mg}$

### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.



# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## 3-Nitrophenol $\geq 99\%$ , for synthesis

article number: 4533

n-octanol/water (log KOW)	2 (Exp.)
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### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### Relevant provisions relating to waste(Basel Convention)

#### Properties of waste which render it hazardous

H6.1 Poisonous (Acute)

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number

UN RTDG UN 1663

IMDG-Code UN 1663

ICAO-TI UN 1663

### 14.2 UN proper shipping name

UN RTDG NITROPHENOLS

IMDG-Code NITROPHENOLS

ICAO-TI Nitrophenols

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## 3-Nitrophenol $\geq 99\%$ , for synthesis

article number: 4533

### 14.3 Transport hazard class(es)

UN RTDG	6.1
IMDG-Code	6.1
ICAO-TI	6.1

### 14.4 Packing group

UN RTDG	III
IMDG-Code	III
ICAO-TI	III

### 14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

### 14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

#### Transport information National regulations Additional information (UN RTDG)

UN number	1663
Class	6.1
Packing group	III
Danger label(s)	6.1



Special provisions (SP)	279 UN RTDG
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Excepted quantities (EQ)	E1 UN RTDG
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Limited quantities (LQ)	5 kg UN RTDG
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Emergency Action Code	2X
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#### International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name	NITROPHENOLS
Particulars in the shipper's declaration	UN1663, NITROPHENOLS, 6.1, III
Marine pollutant	-
Danger label(s)	6.1



Special provisions (SP)	279
Excepted quantities (EQ)	E1

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## 3-Nitrophenol $\geq 99\%$ , for synthesis

article number: 4533

Limited quantities (LQ)	5 kg
EmS	F-A, S-A
Stowage category	A

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name	Nitrophenols
Particulars in the shipper's declaration	UN1663, Nitrophenols, 6.1, III
Danger label(s)	6.1



Special provisions (SP)	A113
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 kg

## SECTION 15: Regulatory information

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

There is no additional information.

#### National regulations(Australia)

##### Australian Inventory of Chemical Substances(AICS)

Substance is listed.

#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
JP	CSCL-ENCS	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

#### Legend

AIIC	Australian Inventory of Industrial Chemicals
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## 3-Nitrophenol $\geq 99\%$ , for synthesis

article number: 4533

### Legend

IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
NCI	National Chemical Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.1	EC number: 209-073-5	CAS number: 554-84-7	yes
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Hazard statements: change in the listing (table)	yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2		Precautionary statements - response: change in the listing (table)	yes
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Warning		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$ .	yes
11.1		Acute toxicity: change in the listing (table)	yes
14.1	UN number: 1663	UN number	yes
14.1		UN RTDG: UN 1663	yes

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## 3-Nitrophenol ≥99 %, for synthesis

article number: 4533

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.1		IMDG-Code: UN 1663	yes
14.1		ICAO-TI: UN 1663	yes
14.2	UN proper shipping name: NITROPHENOLS	UN proper shipping name	yes
14.2	Hazardous ingredients: 3-Nitrophenol		yes
14.2		UN RTDG: NITROPHENOLS	yes
14.2		IMDG-Code: NITROPHENOLS	yes
14.2		ICAO-TI: Nitrophenols	yes
14.3	Class: 6.1 (toxic substances)		yes
14.3		UN RTDG: 6.1	yes
14.3		IMDG-Code: 6.1	yes
14.3		ICAO-TI: 6.1	yes
14.4	Packing group: III (substance presenting low danger)	Packing group	yes
14.4		UN RTDG: III	yes
14.4		IMDG-Code: III	yes
14.4		ICAO-TI: III	yes
14.5	Environmental hazards: none (non-environmentally hazardous acc. to the dangerous goods regulations)	Environmental hazards: non-environmentally hazardous acc. to the dan- gerous goods regulations	yes
14.6	Special precautions for user: Provisions for dangerous goods (ADR) should be complied within the premises.	Special precautions for user: There is no additional information.	yes
14.8	• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)		yes
14.8	UN number: 1663		yes
14.8	Proper shipping name: NITROPHENOLS		yes
14.8	Particulars in the transport document: UN1663, NITROPHENOLS, 6.1, III, (E)		yes
14.8	Class: 6.1		yes

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## 3-Nitrophenol ≥99 %, for synthesis

article number: 4533

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.8	Classification code: T2		yes
14.8	Packing group: III		yes
14.8	Danger label(s): 6.1		yes
14.8		Danger label(s): change in the listing (table)	yes
14.8	Special provisions (SP): 279, 802(ADN)		yes
14.8	Excepted quantities (EQ): E1		yes
14.8	Limited quantities (LQ): 5 kg		yes
14.8	Transport category (TC): 2		yes
14.8	Tunnel restriction code (TRC): E		yes
14.8	Hazard identification No: 60		yes
14.8	Emergency Action Code: 2X		yes
14.8	UN number: 1663		yes
14.8	Class: 6.1		yes
14.8	Packing group: III		yes
14.8	Acute toxicity: oralLD50328 mg/kg rat TOXNET	Transport information National regulations Additional information (UN RTDG)	yes
14.8		UN number: 1663	yes
14.8		Class: 6.1	yes
14.8		Packing group: III	yes
14.8		Danger label(s): 6.1	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8		Special provisions (SP): 279 UN RTDG	yes
14.8		Excepted quantities (EQ): E1 UN RTDG	yes

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## 3-Nitrophenol ≥99 %, for synthesis

article number: 4533

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.8		Limited quantities (LQ): 5 kg UN RTDG	yes
14.8		Emergency Action Code: 2X	yes
14.8	UN number: 1663		yes
14.8	Class: 6.1		yes
14.8	Packing group: III		yes
14.8		Danger label(s): change in the listing (table)	yes
14.8		Danger label(s): change in the listing (table)	yes
15.1	Safety, health and environmental regulations/ legislation specific for the substance or mixture	Safety, health and environmental regulations/ legislation specific for the substance or mixture: There is no additional information.	yes
15.1	National inventories: Substance is listed in the following national inventories: - EINECS/ELINCS/NLP (Europe) - DSL/NDSL (Canada) - Toxic Substance Control Act (TSCA)		yes
15.1		National regulations(Australia)	yes
15.1		Australian Inventory of Chemical Substances(AICS): Substance is listed.	yes
15.1		Other information: Directive 94/33/EC on the protection of young people at work. Observe employment restric- tions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	yes
15.1		National inventories	yes
15.1		National inventories: change in the listing (table)	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## 3-Nitrophenol $\geq 99\%$ , for synthesis

article number: 4533

Abbr.	Descriptions of used abbreviations
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
STEL	Short-term exposure limit
TWA	Time-weighted average
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative
WES	Safe Work Australia: Workplace exposure standards for airborne contaminants

### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H319	Causes serious eye irritation.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.