

## **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

## **Nitrate No.1 Photometer**

Revision date 11-29-2021 Revision Number 2

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

#### 1.1. Product identifier

Product Code(s) PPHNITRA1

Product Name Nitrate No.1 Photometer

Unique Formula Identifier (UFI) NGH9-9A7J-2K1V-6PFQ

Pure substance/mixture
Contains p-Nitroaniline

Mixture

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

Recommended use Reagent for water analysis

Uses advised against Others

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

### **Manufacturer**

Water-I.D. GmbH Daimlerstr. 20

76344 Eggenstein, Germany

Tel.: +49 (0) 721 78 20 29 0, Fax: +49 (0) 721 78 20 29 11

Website: www.water-id.com

EHS / Compliance: lab@water-id.com

## 1.4. Emergency telephone number

Emergency Telephone Poison Control Centre Munich

Tel.: +49 (0) 89 19 24 0

Germany

24 hours service

Languages: German, English

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

regulation (EC) NO 1272/2000	
Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 3 - (H311)
Acute toxicity - Inhalation (Dusts/Mists)	Category 3 - (H331)
Skin corrosion/irritation	Category 1 - (H314)
Serious eve damage/eve irritation	Category 1 - (H318)

## 2.2. Label elements

Contains p-Nitroaniline



#### Signal word Danger

#### **Hazard statements**

H302 - Harmful if swallowed

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H331 - Toxic if inhaled

#### Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

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

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

#### Additional information

This product requires tactile warnings if supplied to the general public. This product requires child resistant fastenings if supplied to the general public.

#### 2.3. Other hazards

Harmful to aquatic life.

This preparation contains substances considered to be persistent, bio-accumulating and toxic (PBT). This mixture contains substances considered to be very persistent and very bioaccumulating (vPvB).

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable

## 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
(+)-Tartaric acid 87-69-4	70-90	No data available	201-766-0	No data available			
p-Nitroaniline 100-01-6	1-5	No data available	202-810-1	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT RE 2 (H373) Aquatic Chronic 3 (H412)			

### Full text of H- and EUH-phrases: see section 16

**Acute Toxicity Estimate** 

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion

value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture

value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
			hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm
p-Nitroaniline 100-01-6	750	7940			
100-01-0					

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical

advice/attention. Do not breathe dust.

Eye contact Get immediate medical advice/attention. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected

area. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact Get immediate medical advice/attention. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Get immediate medical

advice/attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective

equipment as required. See section 8 for more information.

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

Symptoms Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

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

**Note to doctors**Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may

occur with moist rales, frothy sputum, and high pulse pressure.

**SECTION 5: Firefighting measures** 

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **SECTION 6: Accidental release measures**

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

**Personal precautions**Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Attention! Corrosive material. Keep people away from and upwind of spill/leak. Avoid generation of dust. Do not

breathe dust.

**Other information** Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using

this product. Do not breathe dust. Avoid generation of dust.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Do not

breathe dust. Take off contaminated clothing and wash it before reuse.

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

**Storage Conditions** 

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. Protect from moisture. Store away from other materials.

## 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

## **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
p-Nitroaniline	-	TWA: 1 ppm	TWA: 3 mg/m <sup>3</sup>	TWA: 3.0 mg/n	n <sup>3</sup> -
100-01-6		TWA: 6 mg/m³ H*	*		
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
p-Nitroaniline	-	-	TWA: 0.5 ppm	TWA: 1 ppm	
100-01-6			TWA: 3 mg/m <sup>3</sup>	TWA: 6 mg/m	
			H*		STEL: 3 ppm
					STEL: 17 mg/m³
Chemical name	France	Germany	Germany MAK	Greece	iho* Hungary
(+)-Tartaric acid	Fidile	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	Gleece	Tiungary
87-69-4	-	I VVA. Z IIIg/III	Peak: 4 mg/m <sup>3</sup>	_	_
p-Nitroaniline	TWA: 3 mg/m <sup>3</sup>	-	* *	TWA: 1 ppm	TWA: 3 mg/m <sup>3</sup>
100-01-6	* *			TWA: 6 mg/m	
				skin - potential f	
				cutaneous	
				absorption	
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
p-Nitroaniline	TWA: 3 mg/m <sup>3</sup>	-	TWA: 3 mg/m <sup>3</sup>	TWA: 0.1 mg/n	
100-01-6	STEL: 12 mg/m <sup>3</sup>		*		TWA: 0.5 mg/m <sup>3</sup>
Chemical name	Sk* Luxembourg	Malta	Netherlands	Norway	Poland
p-Nitroaniline	Luxeribourg	IVIAIIA -	INEUTIETIATIUS	TWA: 3 mg/m	
100-01-6	-	_	_	STEL: 6 mg/m	
100 01 0				H*	*
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
(+)-Tartaric acid	-	-	-	TWA: 2 mg/m	
87-69-4				STEL: STEL mg	
p-Nitroaniline	TWA: 3 mg/m <sup>3</sup>	TWA: 0.5 ppm	-	-	TWA: 3 mg/m <sup>3</sup>
100-01-6	P*	TWA: 3 mg/m <sup>3</sup>			vía dérmica*
		STEL: 0.9 ppm			
		STEL: 5 mg/m³ *			
Chemical name	Sy	weden	Switzerland		United Kingdom
(+)-Tartaric acid		-	TWA: 2 mg/m <sup>3</sup>	3	
87-69-4			STEL: 4 mg/m		
p-Nitroaniline		-	TWA: 0.5 ppm	1	-
100-01-6			TWA: 3 mg/m <sup>3</sup>	3	
			H*		

## **Biological occupational exposure limits**

Charles Tailed Commany Williams	Chemical name	Denmark	Finland	France	Germany	Germany MAK
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p-Nitroaniline 100-01-6	-	-			- BAT (end o exposure or end shift) blood	d of	
Chemical name	Hungary	Irelan	d	ŀ	taly	Italy REL	
p-Nitroaniline 100-01-6	-	1.5 % hemoglo - Methemoglok or end of	oin during		-	1.5 % of hemoglob blood (Methemoglo during or end of s	bin) -
Chemical name	Slovenia	Spair		Switz	zerland	United Kingdon	n
p-Nitroaniline 100-01-6	-	1.5 % Methem total hemoglob Methemoglob shift)	in (blood -		-	-	

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

8.2. Exposure controls

Personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Do not

breathe dust. Take off contaminated clothing and wash it before reuse.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateSolidAppearancePowderColouryellowOdourOdourless.

Odour threshold No information available

Property Values Remarks • Method

Melting point / freezing point

Boiling point / boiling range
Flammability (solid, gas)

No data available
None known
None known

Upper flammability or explosive No data available

limits
Lower flammability or explosive No data available

limits

Flash pointNo data availableNone knownAutoignition temperatureNo data availableNone known

Decomposition temperature None known

**pH** 1.6 None known

pH (as aqueous solution) No data available No information available

Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known Water solubility No data available None known No data available Solubility(ies) None known No data available None known Partition coefficient No data available None known Vapour pressure No data available Relative density None known

Bulk density
No data available
No data available
No data available
No data available

Relative vapour density

No data available

None known

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

#### 9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

# **SECTION 10: Stability and reactivity**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

**Sensitivity to mechanical impact** None. **Sensitivity to static discharge** None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Exposure to air or moisture over prolonged periods. Excessive heat.

10.5. Incompatible materials

**Incompatible materials** Acids. Bases. Oxidising agent.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Pulmonary edema can be fatal. Toxic by inhalation.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye

damage. (based on components). Corrosive to the eyes and may cause severe damage

including blindness. May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns. Toxic in contact with skin.

**Ingestion** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

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

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Difficulty in

breathing.

### Numerical measures of toxicity

#### **Acute toxicity**

### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 315.80 mg/kg ATEmix (dermal) 360.50 mg/kg ATEmix (inhalation-dust/mist) 0.602 mg/l

#### Unknown acute toxicity

91.67 % of the mixture consists of ingredient(s) of unknown acute oral toxicity. 97.08 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

97.08 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
p-Nitroaniline	= 750 mg/kg (Rat)	> 7940 mg/kg (Rat)	

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes burns.

Serious eye damage/eye irritation Classification based on data available for ingredients. Risk of serious damage to eyes.

Causes burns.

**Respiratory or skin sensitisation** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

# **SECTION 12: Ecological information**

12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life.

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
(+)-Tartaric acid	-	LC50: >100mg/L (96h,	-	-
		Danio rerio)		
p-Nitroaniline	-	LC50: 110 - 142mg/L	-	EC50: =17mg/L (48h,
		(96h, Pimephales		Daphnia magna)
		promelas)		
		LC50: 85.7 - 117mg/L		
		(96h, Pimephales		
		promelas)		
		LC50: =87.6mg/L (96h,		
		Brachydanio rerio)		

### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
p-Nitroaniline	1.3

12.4. Mobility in soil

**Mobility in soil** No information available.

#### 12.5. Results of PBT and vPvB assessment

#### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
(+)-Tartaric acid	The substance is not PBT / vPvB
p-Nitroaniline	PBT / vPvB substance The substance is not PBT / vPvB

### 12.6. Endocrine disrupting properties

No information available. **Endocrine disrupting properties** 

#### 12.7. Other adverse effects

No information available.

# SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

## **SECTION 14: Transport information**

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14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special precautions for user

**Special Provisions** None

IMDG

14.1 UN number or ID number Not regulated

14.2

Not regulated 14.3 Transport hazard class(es) 14.4 Packing group Not regulated Not applicable 14.5 Marine pollutant

14.6 Special precautions for user

**Special Provisions** None No information available 14.7 Maritime transport in bulk No information available

according to IMO instruments

RID

14.1 UN number or ID number Not regulated

14.2

Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group 14.5 Environmental hazards Not applicable

14.6 Special precautions for user

**Special Provisions** None

14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

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14.6 Special precautions for user

Special Provisions None

# **SECTION 15: Regulatory information**

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

### National regulations

#### **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
p-Nitroaniline	RG 15,RG 15bis	-
100-01-6		

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

#### Dangerous substance category per Seveso Directive (2012/18/EU)

H2 - ACUTE TOXIC

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

### EU - Biocidal Product Regulation ((EU) 528/2012)

#### **International Inventories**

**TSCA** Does not comply DSL/NDSL Does not comply **EINECS/ELINCS** Does not comply Does not comply **ENCS** Complies **IECSC** Does not comply **KECL PICCS** Complies **AICS** Does not comply

## Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

**Chemical Safety Report** 

No information available

# **SECTION 16: Other information**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H331 - Toxic if inhaled

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

### Legend

SVHC: Substances of Very High Concern for Authorisation: PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

#### Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Classification procedure		
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used	
Acute oral toxicity	Calculation method	
Acute dermal toxicity	Calculation method	
Acute inhalation toxicity - gas	Calculation method	
Acute inhalation toxicity - Vapour	Calculation method	
Acute inhalation toxicity - dust/mist	Calculation method	
Skin corrosion/irritation	Calculation method	
Serious eye damage/eye irritation	Calculation method	
Respiratory sensitisation	Calculation method	
Skin sensitisation	Calculation method	
Mutagenicity	Calculation method	
Carcinogenicity	Calculation method	
Reproductive toxicity	Calculation method	
STOT - single exposure	Calculation method	
STOT - repeated exposure	Calculation method	
Acute aquatic toxicity	Calculation method	
Chronic aquatic toxicity	Calculation method	
Aspiration hazard	Calculation method	
Ozone	Calculation method	

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

PPHNITRA1 - Nitrate No.1 Photometer

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New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date

11-29-2021

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**