

## Nitrate No. 2 Photometer

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

#### 1.1 - Product identifier

Trade name/designation Nitrate No. 2 Photometer

Chemical name

Product-type Mixture

Product code FN02-0010-000

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

Relevant identified uses - Reagent for water analysis

Uses advised against - Other

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

MDE GmbH & Co. KG

Benzstr. 20

82178 Puchheim

Telephone : +49 (0)89 800 72 802

Email: [msds@finwell-products.com](mailto:msds@finwell-products.com)

#### 1.4 - Emergency telephone number

- Poison Control Center Munich

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

Germany

24 hour service

Languages: German, English

please also call from: United Kingdom

### SECTION 2: Hazards identification

#### 2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Eye Irrit. 2	Eye irritation - Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment - Aquatic Chronic 2

#### 2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word : Warning

Hazard pictograms



Hazard statements

H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects

Precautionary statements

P264	Wash hands thoroughly after handling.
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## Nitrate No. 2 Photometer

P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.
P501	Dispose of contents, container to an appropriate recycling or disposal facility.

EUH-phrases : None

### 2.3 - Other hazards

PBT-substance. - No information available.

vPvB-substance. - No information available.

Other hazards which do not result in classification - No information available.

## SECTION 3: Composition / information on ingredients

### 3.1 - Substances

Not applicable

### 3.2 - Mixtures

Chemical name	No	%	Class	Spec. concentrations
potassium bromide	CAS No. : 7758-02-3 Index No. : EC No. : 231-830-3	< 30	Eye Irrit. 2 - H319	Not applicable
zinc powder - zinc dust (stabilised)	CAS No. : 7440-66-6 Index No. : 030-001-01-9 EC No. : 231-175-3	< 5	Aquatic Chronic 1 - H410	Not applicable

## SECTION 4: First aid measures

### 4.1 - Description of first aid measures

Following inhalation - No special measures are necessary.  
- Provide fresh air.

Following skin contact - Wash immediately with: Water  
- When in doubt or if symptoms are observed, get medical advice.

After eye contact - Rinse immediately carefully and thoroughly with eye-bath or water.  
- In case of eye irritation consult an ophthalmologist.

After ingestion - Rinse mouth thoroughly with water.  
- Do NOT induce vomiting.

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

Symptoms and effects - Following inhalation - No information available.

Symptoms and effects - Following skin contact - No information available.

Symptoms and effects - After eye contact - Causes eye irritation.

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## Nitrate No. 2 Photometer

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Symptoms and effects - After ingestion - No information available.

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

- Treat symptomatically.

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### SECTION 5: Firefighting measures

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5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Carbon dioxide (CO<sub>2</sub>)
- Foam
- Extinguishing powder

Unsuitable extinguishing media - Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture - No information available.

Hazardous decomposition products

- Hydrogen bromide (HBr)
- metallic oxides containing heavy metals

5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.

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### SECTION 6: Accidental release measures

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6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel - Use personal protection equipment.

For emergency responders - No information available.

6.2 - Environmental precautions

- No information available.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment - No information available.

Methods and material for cleaning up

- Take up mechanically.
- Wash with plenty of water.

Inappropriate techniques - No information available.

6.4 - Reference to other sections

- Disposal: see section 13

- Personal protection equipment: see section 8

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### SECTION 7: Handling and storage

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7.1 - Precautions for safe handling

Recommendation - Avoid: Eye contact

## Nitrate No. 2 Photometer

- Avoid: Generation/formation of dust
- It is recommended to design all work processes always so that the following is excluded: Eye contact

Advices on general occupational hygiene - No information available.

7.2 - Conditions for safe storage, including any incompatibilities

- No information available.

7.3 - Specific end use(s)

- Reagent for water analysis

### SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

8.2 - Exposure controls

Appropriate engineering controls - No information available.

Individual protection measures, such as personal protective equipment - Suitable protective clothing: lab coat



- Suitable eye protection: Eye glasses with side protection



- Tested protective gloves must be worn



- Suitable material: NBR (Nitrile rubber)

### SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Solid	<u>Appearance</u>	Powder
<u>Colour</u>	light grey	<u>Odour</u>	odourless
Odour threshold	No data available		
pH	No data available		
Melting point	No data available		
Freezing point	No data available		
Boiling point	No data available		
Flash point	No data available		

## Nitrate No. 2 Photometer

Evaporation rate	No data available
flammability	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Density	No data available
Solubility (Water)	partially soluble
Solubility (Ethanol)	No data available
Solubility (Acetone)	No data available
Solubility (Organic solvents)	No data available
Log KOC	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available

### 9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

## SECTION 10: Stability and reactivity

### 10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

### 10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

### 10.4 - Conditions to avoid

- Protect from moisture.

- Acids

### 10.5 - Incompatible materials

- No information available.

### 10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 - Information on toxicological effects

Acute toxicity - Not classified

## Nitrate No. 2 Photometer

### Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- Based on available data, the classification criteria are not met.

### Toxicity : Substances

<b>potassium bromide (7758-02-3)</b>	
LD50 oral (rat)	3070 mg/kg TOXNET

Skin corrosion/irritation - Not classified

Serious eye damage/eye irritation - Eye irritation - Category 2 - Causes serious eye irritation

- Irritating to eyes.

Respiratory or skin sensitisation - Not classified

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Not classified

STOT-single exposure - Not classified

STOT-repeated exposure - Not classified

Aspiration hazard - Not classified

## SECTION 12: Ecological information

### 12.1 - Toxicity

#### Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

#### Toxicity : Substances

<b>zinc powder - zinc dust (stabilised) (7440-66-6)</b>	
EC50 48 hr crustacea	0,068 mg/l Daphnia magna

## Nitrate No. 2 Photometer

LC50 96 hr fish	0,45 mg/l Cyprinus carpio
NOEC chronic crustacea	0,101 mg/l < V < 0,14 mg/l Daphnia (7d)
<b>potassium bromide (7758-02-3)</b>	
EC50 48 hr crustacea	> 100 mg/l Daphnia magna (OECD - 202)
LC50 96 hr fish	> 45 mg/l Pimephales promelas (IUCID)

- Toxic to aquatic life with long lasting effects.

### 12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

### 12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

### 12.4 - Mobility in soil

- No information available.

### 12.5 - Results of PBT and vPvB assessment

- No information available.

- No information available.

### 12.6 - Other adverse effects

- No information available.

## SECTION 13: Disposal considerations

### 13.1 - Waste treatment methods

<u>Waste treatment methods</u>	- Dispose of waste according to applicable legislation.
<u>Sewage disposal</u>	- Do not empty into drains.
<u>Special precautions for waste treatment</u>	- No information available.
<u>Community or national or regional provisions</u>	- Dispose according to legislation.

## SECTION 14: Transport information

### 14.1 - UN number

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## Nitrate No. 2 Photometer

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<u>UN number (ADR)</u>	:	UN3077
<u>UN number (RID)</u>	:	UN3077
<u>UN number (ADN)</u>	:	UN3077
<u>UN number (IMDG)</u>	:	UN3077
<u>UN number (IATA)</u>	:	UN3077

### 14.2 - UN proper shipping name

<u>UN proper shipping name (ADR)</u>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc powder - zinc dust (stabilised))
<u>UN proper shipping name (RID)</u>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc powder - zinc dust (stabilised))
<u>UN proper shipping name (ADN)</u>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc powder - zinc dust (stabilised))
<u>UN proper shipping name (IMDG)</u>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc powder - zinc dust (stabilised))
<u>UN proper shipping name (IATA)</u>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc powder - zinc dust (stabilised))

### 14.3 - Transport hazard class(es)

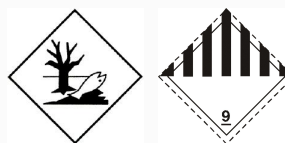


## Nitrate No. 2 Photometer

ADR Transport hazard class(es) : 9

ADR Classification code: : M7

Pictograms



Transport hazard class(es) (RID) : 9

Pictograms



Transport hazard class(es) (ADN) : 9

Pictograms



Transport hazard class(es) (IMDG) : 9

Pictograms



Transport hazard class(es) (IATA) : 9

Pictograms



### 14.4 - Packing group

Packing group : III

Packing group (RID) : III

Packing group (ADN) : III

Packing group (IMDG) : III

Packing group (IATA) : III

### 14.5 - Environmental hazards

Environmental hazards : Yes.

Marine pollutant : Hazardous to the aquatic environment - Aquatic Chronic 2

### 14.6 - Special precautions for user

## Nitrate No. 2 Photometer

### **ADR**

<u>ADR Classification code:</u>	:	M7
<u>ADR Special provisions</u>	:	274+335+375+601
<u>ADR Limited quantity (LQ)</u>	:	5 kg
<u>ADR Excepted quantities</u>	:	E1
<u>ADR Packing instructions</u>	:	P002 IBC08 LP02 R001
<u>ADR Special packing provisions</u>	:	PP12 B3
<u>ADR Mixed packing provisions</u>	:	MP10
<u>Instructions for portable tanks and bulk containers</u>	:	T1
<u>Special provisions for portable tanks and bulk containers</u>	:	TP33
<u>ADR tank code</u>	:	SGAV LGBV
<u>ADR tanks special provisions</u>	:	
<u>Vehicle for tank carriage</u>	:	AT
<u>ADR Transport category</u>	:	3
<u>ADR Tunnel restriction code</u>	:	E
<u>ADR Special provisions loading, unloading and handling</u>	:	CV13
<u>Special provisions - Packages</u>	:	V13
<u>Special provisions - Bulk</u>	:	VC1 VC2
<u>Special provisions - Operation</u>	:	
<u>ADR Hazard identification number (Kemler No.)</u>	:	90

### **RID**

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

### **ADN**

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

### **IMDG**

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	
<u>Packing instructions</u>	:	
<u>Special packing provisions</u>	:	
<u>IBC instruction(s)</u>	:	
<u>IBC provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>EmS codes</u>	:	
<u>Stowage and handling</u>	:	
<u>Segregation</u>	:	
<u>Properties and observations</u>	:	

## Nitrate No. 2 Photometer

### IATA

<u>PCA - Excepted quantities</u>	:
<u>PCA - Limited Quantity - Packing Instructions</u>	:
<u>PCA - Limited Quantity - Maximum Net Quantity per Package</u>	:
<u>PCA - Packing Instructions</u>	:
<u>PCA - Maximum Net Quantity per Package</u>	:
<u>CAO - Packing Instructions</u>	:
<u>CAO - Maximum Net Quantity per Package</u>	:
<u>Special Provisions</u>	:
<u>ERG Code</u>	:

14.7 - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- EHS-Labeling necessary (ADR 2.2.9.1.10, IMDG Code 2.10.3) for single packs and combined packing with inner packing for hazardous substances >5L for liquids and >5kg for solids.

### SECTION 15: Regulatory information

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

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content No data available

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

### SECTION 16: Other information

#### SDS versions

Version	Issue date	Description of the amendments
1	08.04.2019	MSDS creation

#### Texts of the regulatory sentences

Aquatic Chronic 1	Hazardous to the aquatic environment - Aquatic Chronic 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Aquatic Chronic 2
Eye Irrit. 2	Eye irritation - Category 2
H319	Causes serious eye irritation
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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## Nitrate No. 2 Photometer

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