

## SAFETY DATA SHEET

### 1. Identification of the substance / preparation and company.

#### 1.1 Product identifier

Product Nr. CL05.1189  
Trade name Potassium dichromate 0.167 mol/l  
REACH Registration Number 01-2119454792-32  
CAS-No. 7778-50-9

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

Identified uses: Reagent for analysis  
In compliance with the conditions described in the annex to this safety data sheet.

#### 1.3 Information provided by AnalytiChem Belgium NV product service.

Responsible department: AnalytiChem Belgium NV  
Industriezone "De Arend" 2  
B-8210 Zedelgem  
BELGIUM  
Tel. +32 50 28 83 20 e-mail: info.be@analytichem.com

#### 1.4 Emergency telephone: 00 (32) 50.28.83.20

### 2. Hazard identification

#### 2.1 Classification of the substance or the mixture (EG 1272/2008)

Carcinogenicity, Categorie 1B, H350  
Germ cell mutagenicity, Categorie 1B, H340  
Reproductive toxicity, Categorie 1B, H360  
Specific target organ toxicity - repeated exposure, Categorie 2, H373  
Hazardous to the aquatic environment, Categorie 3, H412

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

For the full text of R-sentences mentioned in this Section, see Section 16

#### 2.2 GHS-Labelling

GHS-Labelling Labelling (REGULATION (EC) No 1272/2008) (EG 1272/2008)

Hazard pictograms:



Signal word:  
Danger :

Hazard statements:

|      |                                                                    |
|------|--------------------------------------------------------------------|
| H350 | May cause cancer.                                                  |
| H340 | May cause genetic defects.                                         |
| H360 | May damage fertility or the unborn child.                          |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P201               | Obtain special instructions before use.                                                                                          |
| P280               | Wear protective gloves, protective clothing, eye protection, face protection.                                                    |
| P301 + P330 + P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting.                                                                               |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304 + P341        | IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.      |
| P308 + P313        | IF exposed or concerned: Get medical advice/attention.                                                                           |

Reduced labelling

Hazard pictograms:



Signal word:

Danger :

Hazard statements:

|      |                                                                            |
|------|----------------------------------------------------------------------------|
| H350 | May cause cancer.                                                          |
| H340 | May cause genetic defects.                                                 |
| H360 | May damage fertility or the unborn child.                                  |
| H330 | Fatal if inhaled.                                                          |
| H301 | Toxic if swallowed.                                                        |
| H372 | Causes damage to organs through prolonged or repeated exposure.            |
| H314 | Causes severe skin burns and eye damage.                                   |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction.                                       |

Precautionary statements:

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P201               | Obtain special instructions before use.                                                                                          |
| P280               | Wear protective gloves, protective clothing, eye protection, face protection.                                                    |
| P301 + P330 + P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting.                                                                               |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304 + P341        | IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.      |
| P308 + P313        | IF exposed or concerned: Get medical advice/attention.                                                                           |

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### **3. Composition / Information on ingredients.**

#### **3.1 Substance**

Not applicable

#### **3.2 Mixture**

|          |              |
|----------|--------------|
| CAS-No.  | 7778-50-9    |
| EC-Nr    | 231-906-6    |
| Index-No | 024-002-00-6 |

#### **4. First aid measures.**

##### **4.1 Description of first aid measures**

###### **General advice**

First-aid personnel: ensure self-protection!

After inhalation: Fresh air. If breathing stops immediately apply mechanical ventilation, if necessary oxygen mask. Immediately call in physician.

After contact with skin: Wash off with plenty of water. Remove contaminated clothing. Immediately call in physician.

After contact with eyes: Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately call an ophtalmologist.

After ingestion: Never give anything by mouth to an unconscious person. Make the victim drink plenty of water, induce vomiting. Call in physician.

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

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

No data available

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#### **5. Fire fighting measures.**

##### **5.1 Extinguishing media**

###### **Suitable extinguishing media**

In adaption to materials stored in the immediate neighbourhood.

###### **Unsuitable extinguishing media**

Prevent fire-fighting water from entering surface water or groundwater.

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

Non-combustible. A fire-promoting effect must be considered possible when large amounts of the substance are stored.

##### **5.3 Advice for firefighters**

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

##### **5.4 Further information**

No data available

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#### **6. Accidental release measures.**

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

Avoid substance contact. Avoid generation of dusts, do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

For personal protection see section 8.

##### **6.2 Environmental precautions**

Do not allow to enter sewerage system.

##### **6.3 Methods and materials for containment and cleaning up**

Take up dry. Forward for disposal. Clean up affected area.

## 6.4 Reference to other sections

For disposal see section 13.

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## 7. Handling and storage.

### 7.1 Precautions for safe handling

Work under hood. Do not inhale substance . Avoid generation of vapours/aerosols.  
For precautions see section 2.2

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

Tightly closed and dry. Separately or together with other oxidizing substances only and away from sources of ignition, combustible materials and heat.  
Recommended storage temperature see product label.

### 7.3 Specific end use(s)

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

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## 8. Exposure controls - Personal protection.

### 8.1 Control parameters

### 8.2 Exposure controls

#### Engineering measures

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

See section 7.1

#### Individual protection measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance. Under no circumstances eat or drink at workplace. Work under hood . Do not inhale substance.

#### Respiratory protections

Required when dusts are generated.

The entrepreneur 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.

#### Eye protection

Required.

#### Hand protection

Required.

#### Body protection

Required.

#### Environmental exposure controls

Do not allow to enter sewerage system.

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## 9. Physical and chemical properties.

### 9.1 Information on basic physical

#### Appearance

|         |           |
|---------|-----------|
| Form:   | Liquid    |
| Colour: | orange    |
| Odour:  | Odourless |

#### Changes in physical state

|                            |              |
|----------------------------|--------------|
| Melting Point:             | 0°C          |
| Boiling point:             | 100°C        |
| Flash point:               | -            |
| Self Ignation temperature: | -            |
| Mol. Weight:               | 294.19 g/mol |
| Density:                   | 1,01 g/ml    |
| pH value:                  | -            |
| Solubility in water:       | soluble      |
| Explosion limits:          |              |

## 9.2 Other data

No further relevant information available.

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## 10. Stability and reactivity.

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

No further relevant information available.

### 10.3 Possibility of hazardous reactions

Avoid contact with acids, metals, combustible materials, heat and sun light.

### 10.4 Conditions to avoid

No further relevant information available.

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

No further relevant information available.

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## 11. Toxicological information.

### 11.1 Information on toxicological effects

Acute oral toxicity  
LD50 orl. rat 25 mg/kg

Acute inhalation toxicity  
No further relevant information available.

Acute dermal toxicity  
No further relevant information available.

Skin irritation  
No further relevant information available.

Eye irritation  
No further relevant information available.

Sensitisation  
No further relevant information available.

Germ cell mutagenicity  
No further relevant information available.

Carcinogenicity  
No further relevant information available.

Reproductive toxicity  
No further relevant information available.

Teratogenicity  
No further relevant information available.

Specific target organ toxicity - single exposure  
No further relevant information available.

Specific target organ toxicity - repeated exposure  
No further relevant information available.

Aspiration hazard  
No further relevant information available.

#### 11.2 Further information

No further relevant information available.

Further data:

Handle in accordance with good industrial hygiene and safety practice..

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### 12. Ecological information.

#### 12.1 Toxicity

No further relevant information available.

#### 12.2 Persistence and degradability

No further relevant information available.

#### 12.3 Bioaccumulative potential

No further relevant information available.

#### 12.4 Mobility in soil

No further relevant information available.

#### 12.5 Results of PBT and vPvB assessment

No further relevant information available.

#### 12.6 Other adverse effects

Do not allow to enter waters, waste water, or soil!

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### 13. Disposal considerations.

Product: Chemicals must be disposed of in compliance with the respective national regulations. Packaging: Chem-lab product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

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### 14. Transport information.

#### Land Transport (ADR/RID)

##### 14.1 UN number

UN 3287

##### 14.2 Proper shipping name

Toxic liquid, inorganic, n.o.s.  
(Potassium dichromate)

##### 14.3 Class

6.1

##### 14.4 Packing group

III

##### 14.5 Environmentally hazardous

-

##### 14.6 Special precautions for user

yes

Tunnel restriction code

(E)

#### Inland waterway transport (ADN)

Not relevant

**Air Transport (IATA)**

|                                          |                                                           |
|------------------------------------------|-----------------------------------------------------------|
| <b>14.1 UN number</b>                    | UN 3287                                                   |
| <b>14.2 Proper shipping name</b>         | Toxic liquid, inorganic, n.o.s.<br>(Potassium dichromate) |
| <b>14.3 Class</b>                        | 6.1                                                       |
| <b>14.4 Packing group</b>                | III                                                       |
| <b>14.5 Environmentally hazardous</b>    | -                                                         |
| <b>14.6 Special precautions for user</b> | yes                                                       |

**Sea Transport (IMDG)**

|                                          |                                                           |
|------------------------------------------|-----------------------------------------------------------|
| <b>14.1 UN number</b>                    | UN 3287                                                   |
| <b>14.2 Proper shipping name</b>         | Toxic liquid, inorganic, n.o.s.<br>(Potassium dichromate) |
| <b>14.3 Class</b>                        | 6.1                                                       |
| <b>14.4 Packing group</b>                | III                                                       |
| <b>14.5 Environmentally hazardous</b>    | -                                                         |
| <b>14.6 Special precautions for user</b> | yes                                                       |

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

Not relevant

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**15. Regulatory information.****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

For this product an assessment was not carried out.

**15.2 Chemical Safety Assessment**

For this product an assessment was not carried out.

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**16. Other information.**

The information and recommendations in this MSDS are to the best of our knowledge, information and belief accurate at the date of publications. Although utmost care has been taken in the composition of this text, the publisher cannot be held responsible for any damage resulting from any possible error in this publications.

Full text of H-Statements referred to under sections 2 and 3.

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

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

H412 Harmful to aquatic life with long lasting effects.