

## SAFETY DATA SHEET

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

#### 1.1 Product identifier

Product Nr. CL05.1124  
Trade name Potassium hydroxide 0.5 mol/l in Ethanol  
REACH Registration Number A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

#### 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)

Flammable liquid, Categorie 2, H225  
Substance or mixture corrosive to metals, Categorie 1, H290  
Skin corrosion/irritation, Categorie 2, H315

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-Labeling

GHS-Labeling Labelling (REGULATION (EC) No 1272/2008) (EG 1272/2008)  
Hazard pictograms:



Signal word:  
Danger :

Hazard statements:

H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H315	Causes skin irritation.

Precautionary statements:

P210	Keep away from heat, sparks, open flames, hot surfaces. No smoking.
P233	Keep container tightly closed.
P241	Use explosion-proof electrical ventilating, lighting, ... equipment.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust, fume, gas, mist, vapours, spray.
P280	Wear protective gloves, protective clothing, eye protection, face protection.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove, Take off immediately all contaminated clothing. Rinse skin with water, 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.
P403 + P235	Store in a well-ventilated place. Keep cool.

Reduced labelling

Hazard pictograms:



Signal word:

Danger :

### 3. Composition / Information on ingredients.

#### 3.1 Substance

Not applicable

#### 3.2 Mixture

Hazardous Ingredients:

Name according to EC directives:

Component	Cas-No.	Concentration	Classification (REGULATION (EC) No 1272/2008)
Potassium hydroxide, pellets a.r.	1310-58-3	≥2% - <5%	Skin Corr. (H314) Acute Tox. (oral) 4 (H302) Met. Corr. 1 (H290)
Ethanol denaturated with Eurodenaturant (Disolol®)	64-17-5	≥90%	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)

Component	Reach Number
Potassium hydroxide, pellets a.r.	01-2119487136-33
Ethanol denaturated with Eurodenaturant (Disolol®)	01-2119457610-43

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

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

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

#### **General advice**

First-aid personnel: ensure self-protection!

After inhalation: Fresh air.

After contact with skin: Wash off with plenty of water. Remove contaminated clothing.

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

After ingestion: Never give anything by mouth to an unconscious person. Immediately make victim drink water (two glasses at most). 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**

Use dry chemical or carbon dioxide.

#### **Unsuitable extinguishing media**

Do not use water. Cool container with spray water from a safe distance. Prevent fire-fighting water from entering surface water or groundwater.

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

Combustible. Vapours heavier than air. Forms explosive mixtures with air at ambient temperatures. Development of hazardous combustion gases or vapours possible in the event of fire.

### **5.3 Advice for firefighters**

Do not stay in dangerous zone without self-contained breathing apparatus.

### **5.4 Further information**

No data available

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

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

Do not inhale vapours/aerosols. Avoid substance contact. 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; risk of explosion!

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

Absorb on vermiculite, sand or a pillow from Chemical Spill Center.

### **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

Use non sparking tools.  
For precautions see section 2.2

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

Closed in a well ventilated place.  
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

Wear gas mask.

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

Yes (antistatic).

#### Environmental exposure controls

Do not allow to enter sewerage system; risk of explosion!

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## 9. Physical and chemical properties.

### 9.1 Information on basic physical

#### Appearance

Form: Liquid  
Colour: colourless to yellow  
Odour: alcoholic

#### Changes in physical state

Melting Point: -117°C  
Boiling point: 78°C  
Flash point: 12°C  
Self Ignation temperature: 370°C  
Mol. Weight: -

Density: 0,85 g/ml  
pH value:  
Solubility in water: soluble  
Explosion limits: lower 2 vol% / upper 12.0 vol%  
Further information: explosion limits - I

#### **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**

Stable / avoid contact with oxidizing products.

#### **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 6200 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

No ecological problems are to be expected when the product is hand led and used with due care and attention

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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 2924

Flammable liquid, corrosive, n.o.s.  
(Ethanol, potassium hydroxide  
solution)

##### 14.2 Proper shipping name

##### 14.3 Class

3 (8)

##### 14.4 Packing group

II

##### 14.5 Environmentally hazardous

-

##### 14.6 Special precautions for user

no

Tunnel restriction code

(D/E)

#### **Inland waterway transport (ADN)**

Not relevant

#### **Air Transport (IATA)**

##### 14.1 UN number

UN 2924

Flammable liquid, corrosive, n.o.s.

<b>14.2 Proper shipping name</b>	(Ethanol, potassium hydroxide solution)
<b>14.3 Class</b>	3 (8)
<b>14.4 Packing group</b>	II
<b>14.5 Environmentally hazardous</b>	-
<b>14.6 Special precautions for user</b>	no
<b>Sea Transport (IMDG)</b>	
<b>14.1 UN number</b>	UN 2924 Flammable liquid, corrosive, n.o.s. (Ethanol, potassium hydroxide solution)
<b>14.2 Proper shipping name</b>	(Ethanol, potassium hydroxide solution)
<b>14.3 Class</b>	3 (8)
<b>14.4 Packing group</b>	II
<b>14.5 Environmentally hazardous</b>	-
<b>14.6 Special precautions for user</b>	no
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	
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.

- H225 Highly flammable liquid and vapour.
- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.