

## SAFETY DATA SHEET

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

#### 1.1 Product identifier

Product Nr. CL02.0401  
Trade name Drabkin's Haemoglobine reagent  
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)

Acute toxicity, Oral, Categorie 3, H301  
Acute toxicity, Dermal, Categorie 3, H311  
Acute toxicity, Inhalation, Categorie 4, H332  
Specific target organ toxicity - repeated exposure, Categorie 2, H373  
Hazardous to the aquatic environment, Categorie 1, H410

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:

H301 Toxic if swallowed.  
H311 Toxic in contact with skin.

H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P260	Do not breathe dust, fume, gas, mist, vapours, spray.
P264	Wash ... thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection, face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301 + P330	IF SWALLOWED: Rinse mouth.
P391	Collect spillage.
EUH032	Contact with acids liberates very toxic gas.

Reduced labelling

Hazard pictograms:



Signal word:

Danger :

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

#### **3.1 Substance**

Not applicable

#### **3.2 Mixture**

Formula  $K_3Fe(CN)_6/KCN/KH_2PO_4/H_2O$

### **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. Ambient fire may liberate hazardous vapours.

#### **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**

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.

#### **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**

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**

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

Required when vapours/aerosols/dust 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:	Yellow
Odour:	Odourless

#### Changes in physical state

Melting Point:	0°C
Boiling point:	100°C
Flash point:	-
Self Ignation temperature:	-
Mol. Weight:	
Density:	1,00 g/ml
pH value:	7.2 (± 0.1)
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 5 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..

## **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)**

<b>14.1 UN number</b>	UN 3413
<b>14.2 Proper shipping name</b>	Potassium cyanide solution
<b>14.3 Class</b>	6.1
<b>14.4 Packing group</b>	II
<b>14.5 Environmentally hazardous</b>	yes
<b>14.6 Special precautions for user</b>	no
Tunnel restriction code	(D/E)

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

Not relevant

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

<b>14.1 UN number</b>	UN 3413
<b>14.2 Proper shipping name</b>	Potassium cyanide solution
<b>14.3 Class</b>	6.1
<b>14.4 Packing group</b>	II
<b>14.5 Environmentally hazardous</b>	yes
<b>14.6 Special precautions for user</b>	no

### **Sea Transport (IMDG)**

<b>14.1 UN number</b>	UN 3413
<b>14.2 Proper shipping name</b>	Potassium cyanide solution
<b>14.3 Class</b>	6.1
<b>14.4 Packing group</b>	II
<b>14.5 Environmentally hazardous</b>	yes
<b>14.6 Special precautions for user</b>	no

### **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.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H332 Harmful if inhaled.

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

H410 Very toxic to aquatic life with long lasting effects.