

**CAFFEINE** 

Page: 1

Compilation date: 16/04/2015

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Revision No: 10

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

#### 1.1. Product identifier

Product name: CAFFEINE
CAS number: 58-08-2
EINECS number: 200-362-1

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

Use of substance / mixture: PC21: Laboratory chemicals.

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

Company name: Elemental Microanalysis Ltd

1 Hameldown Road Okehampton

Okehampton

Devon EX20 1UB

United Kingdom

**Tel:** 44(0)183754446 **Fax:** 44(0)183754544

Email: info@microanalysis.co.uk

## 1.4. Emergency telephone number

Emergency tel: +44 (0) 7990 767375 (24 hours)

#### Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H302

Most important adverse effects: Harmful if swallowed.

## 2.2. Label elements

Label elements:

**Hazard statements:** H302: Harmful if swallowed. **Hazard pictograms:** GHS07: Exclamation mark



Signal words: Warning

Precautionary statements: P264: Wash hands thoroughly after handling.

P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

CAFFEINE

Page: 2

P270: Do not eat, drink or smoke when using this product.

P330: Rinse mouth.

P501: Dispose of contents/container to hazardous or special waste collection point.

#### 2.3. Other hazards

## Section 3: Composition/information on ingredients

#### 3.1. Substances

CAS number: 58-08-2
EINECS number: 200-362-1

#### Section 4: First aid measures

## 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water. **Eye contact:** Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water

to drink immediately. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a

doctor.

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

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty

swallowing. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Not applicable.

### Section 5: Fire-fighting measures

## 5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

#### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes.

## 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

with skin and eyes.

**CAFFEINE** 

Page: 3

#### Section 6: Accidental release measures

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

Personal precautions: Refer to section 8 of SDS for personal protection details. Do not create dust. Mark out the

contaminated area with signs and prevent access to unauthorised personnel. If outside

do not approach from downwind.

#### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

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

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate

method.

#### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

### Section 7: Handling and storage

## 7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid the formation or spread of dust in

the air. Avoid direct contact with the substance. Wash hands after working with

substance.

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

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

## 7.3. Specific end use(s)

Specific end use(s): No data available.

## Section 8: Exposure controls/personal protection

## 8.1. Control parameters

Workplace exposure limits: No data available.

#### **DNEL/PNEC Values**

**DNEL / PNEC** No data available.

## 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protective device with particle filter. Particle filter class P1 (EN143).

**Hand protection:** Protective gloves. Nitrile gloves. Breakthrough time of the glove material > 8 hours.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

CAFFEINE

Page: 4

## Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State: Powder
Colour: White

Odourless

Evaporation rate: No data available.

Oxidising: No data available.

Solubility in water: Soluble

Viscosity: No data available.

Boiling point/range°C: No data available. Melting point/range°C: 234-236.5

Flammability limits %: lower: No data available. upper: No data available.

Flash point°C: No data available. Part.coeff. n-octanol/water: log Pow: -0.091 at 2

Autoflammability°C: No data available. Vapour pressure: 20 hPa at 89 °C

**Relative density:** 1.230 g/cm3 at 18 °C **pH:** ~6 (10g/l, 20°c)

VOC g/l: No data available.

#### 9.2. Other information

Other information: No data available.

## Section 10: Stability and reactivity

## 10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

## 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

## 10.4. Conditions to avoid

Conditions to avoid: Heat.

#### 10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

# 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

# **Section 11: Toxicological information**

## 11.1. Information on toxicological effects

CAFFEINE

Page: 5

## **Toxicity values:**

Route	Species	Test	Value	Units
DERMAL	RAT	LD50	2000	mg/kg
ORAL	RAT	LD50	261	mg/kg
DERMAL	RBT	LD50	2000	mg/kg

## **Hazardous ingredients:**

## **CAFFEINE**

DERMAL	RAT	LD50	2000	mg/kg
DERMAL	RBT	LD50	2000	mg/kg
ORAL	RAT	LD50	261	mg/kg

## Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated

## Symptoms / routes of exposure

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty

swallowing. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

# **Section 12: Ecological information**

# 12.1. Toxicity

## **Ecotoxicity values:**

Species	Test	Value	Units
Daphnia magna	48H EC50	182	mg/l
FISH	96H LC50	87	mg/l
ALGAE	72H EC50	100	mg/l
GUPPY	96H LC50	275	mg/l

## **Hazardous ingredients:**

#### **CAFFEINE**

ALGAE	72H EC50	100	mg/l

**CAFFEINE** 

Page: 6

Daphnia magna	48H EC50	182	mg/l
FISH	96H LC50	87	mg/l
GUPPY	96H LC50	275	mg/l

## 12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

## 12.4. Mobility in soil

Mobility: No data available.

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

PBT identification: This product is not identified as a PBT/vPvB substance.

#### 12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

#### Section 13: Disposal considerations

### 13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal

company.

NB: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

## **Section 14: Transport information**

# 14.1. UN number

UN number: UN1544

## 14.2. UN proper shipping name

Shipping name: ALKALOIDS, SOLID, N.O.S.

# 14.3. Transport hazard class(es)

Transport class: 6.1

#### 14.4. Packing group

Packing group: III

#### 14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

## 14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

**CAFFEINE** 

Page: 7

Transport category: 2

## **Section 15: Regulatory information**

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

Specific regulations: Not applicable.

## 15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

#### Section 16: Other information

#### Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation

(EU) 2015/830

This safety data sheet is prepared in accordance with Commission Regulation (EC) No

1272/2008.

\* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

and shall be used only as a guide. This company shall not be held liable for any

damage resulting from handling or from contact with the above product.