

# SAFETY DATA SHEET

FORMAMIDE 99.5% ACS

Page: 1

Compilation date: 11/10/2018

Revision No: 1

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

### 1.1. Product identifier

**Product name:** FORMAMIDE 99.5% ACS

**CAS number:** 75-12-7

**EINECS number:** 200-842-0

**Product code:** GPS9002

**Synonyms:** AMIDE C1

FORMIC AMIDE

### 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:** Atom Scientific Ltd

2b East Tame Business Park

Hyde

Manchester

SK14 4GX

**Tel:** 0161 366 5123

**Fax:** 01704 337167

**Email:** technical@atomscientific.com

### 1.4. Emergency telephone number

**Emergency tel:** 07833453806

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CLP:** Carc. 2: H351; Repr. 1B: H360D; STOT RE 2: H373

**Classification under CHIP:** T: R61

**Most important adverse effects:** Suspected of causing cancer [blood]. May damage the unborn child. May cause damage to organs [blood] through prolonged or repeated exposure [oral].

### 2.2. Label elements

**Label elements under CLP:**

**Hazard statements:** H351: Suspected of causing cancer [blood].

H360D: May damage the unborn child.

H373: May cause damage to organs [blood] through prolonged or repeated exposure [oral].

**Signal words:** Danger

[cont...]

# SAFETY DATA SHEET

FORMAMIDE 99.5% ACS

Page: 2

**Hazard pictograms:** GHS08: Health hazard



**Precautionary statements:** P201: Obtain special instructions before use.  
P281: Use personal protective equipment as required.  
P308+313: IF exposed or concerned: Get medical advice/attention.

## 2.3. Other hazards

**Other hazards:** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

## Section 3: Composition/information on ingredients

### 3.1. Substances

**Chemical identity:** FORMAMIDE 99.5% ACS

**CAS number:** 75-12-7

**EINECS number:** 200-842-0

**Contains:** Molecular Formula : CH<sub>3</sub>NO  
Molecular Weight : 45.04 g/mol

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes.

**Ingestion:** Never give anything by mouth to an unconscious person. Wash out mouth with water.  
Consult a doctor.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

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

**Skin contact:** No data available.

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

**Ingestion:** No data available.

**Inhalation:** No data available.

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

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

**Immediate / special treatment:** No data available.

[cont...]

# SAFETY DATA SHEET

FORMAMIDE 99.5% ACS

Page: 3

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

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

**Exposure hazards:** Not applicable.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus.

## Section 6: Accidental release measures

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

**Personal precautions:** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate the area immediately. Refer to section 8 of SDS for personal protection details.

### 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:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Avoid the formation or spread of dust in the air.

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

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature 2 - 8 °C.

**Suitable packaging:** Not applicable.

### 7.3. Specific end use(s)

**Specific end use(s):** No special requirement.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

[cont...]

# SAFETY DATA SHEET

FORMAMIDE 99.5% ACS

Page: 4

## Workplace exposure limits:

## Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	37mg/m <sup>3</sup>	56mg/m <sup>3</sup>	-	-

### 8.1. DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

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

**Eye protection:** Face-shield. Safety glasses.

**Skin protection:** The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Complete suit protecting against chemicals.

**Environmental:** Do not let product enter drains. Prevent from entering in public sewers or the immediate environment.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Colourless Yellow

**Odour:** Ammonia

**Solubility in water:** Miscible

**Boiling point/range°C:** 210

**Flammability limits %: lower:** 2.7

**Flash point°C:** 175

**Vapour pressure:** 0.08

**pH:** 4-10 at 200g/l

**Melting point/range°C:** 2-3

**upper:** 19

**Part.coeff. n-octanol/water:** -0.82

**Relative density:** 1.134g/cm<sup>3</sup>

### 9.2. Other information

**Other information:** Not applicable.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** No data available.

[cont...]

# SAFETY DATA SHEET

FORMAMIDE 99.5% ACS

Page: 5

## 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

**Hazardous reactions:** No data available.

## 10.4. Conditions to avoid

**Conditions to avoid:** Heat.

## 10.5. Incompatible materials

**Materials to avoid:** Bases. Oxidising agents. Hydrogen peroxide, Iodine, Pyridine, Sulphur oxides.

## 10.6. Hazardous decomposition products

**Haz. decomp. products:** No data available.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	5,325	mg/kg
DERMAL	RAT	LD50	3,000	mg/kg

#### Relevant hazards for substance:

Hazard	Route	Basis
Carcinogenicity	--	Based on test data
Reproductive toxicity	--	Based on test data
STOT-repeated exposure	-	Based on test data

### Symptoms / routes of exposure

**Skin contact:** No data available.

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

**Ingestion:** No data available.

**Inhalation:** No data available.

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

**Other information:** Not applicable.

## Section 12: Ecological information

### 12.1. Toxicity

[cont...]

# SAFETY DATA SHEET

FORMAMIDE 99.5% ACS

Page: 6

## Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	6,569	mg/l
Daphnia magna	48H EC50	500	mg/l
ALGAE	48H EC50	500	mg/l

## 12.2. Persistence and degradability

**Persistence and degradability:** Readily biodegradable.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

## 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:** No data available.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Offer surplus and non-recyclable solutions to a licensed disposal company.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Dispose of as unused product.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

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

**Specific regulations:** This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2. Chemical Safety Assessment

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

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

[cont...]

## SAFETY DATA SHEET

FORMAMIDE 99.5% ACS

Page: 7

**Phrases used in s.2 and 3:** H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H360D: May damage the unborn child.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

R61: May cause harm to the unborn child.

**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.