

# SAFETY DATA SHEET

PHENOL DETACHED CRYSTALS 99% ACS

Page: 1

Compilation date: 20/12/2018

Revision No: 1

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

### 1.1. Product identifier

**Product name:** PHENOL DETACHED CRYSTALS 99% ACS

**CAS number:** 108-95-2

**EINECS number:** 203-632-7

**Product code:** GPC8008

**Synonyms:** HYDROXYBENZENE

### 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:** Acute Tox. 3: H301+311+331; Skin Corr. 1B: H314; Muta. 2: H341; STOT RE 2: H373; Aquatic Chronic 2: H411

**Classification under CHIP:** T: R23/24/25; C: R34; Xn: R48/20/21/22; Xn: R68

**Most important adverse effects:** Toxic if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

**Label elements under CLP:**

**Hazard statements:** H301+311+331: Toxic if swallowed, in contact with skin or if inhaled.

H314: Causes severe skin burns and eye damage.

H341: Suspected of causing genetic defects.

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

H411: Toxic to aquatic life with long lasting effects.

[cont...]

**SAFETY DATA SHEET**  
PHENOL DETACHED CRYSTALS 99% ACS

Page: 2

**Signal words:** Danger

**Hazard pictograms:** GHS05: Corrosion

GHS06: Skull and crossbones

GHS08: Health hazard

GHS09: Environmental



**Precautionary statements:** P260: Do not breathe dust/fumes/gas/mist/vapours/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P310: Immediately call a POISON CENTER or doctor.  
P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 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:** PHENOL DETACHED CRYSTALS 99% ACS

**CAS number:** 108-95-2

**EINECS number:** 203-632-7

**Contains:** Molecular Formula : C<sub>6</sub>H<sub>6</sub>O  
Molecular Weight : 94.11 g/mol

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a doctor.

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

**Ingestion:** Do not induce vomiting. 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.

[cont...]

**SAFETY DATA SHEET**  
PHENOL DETACHED CRYSTALS 99% ACS

Page: 3

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

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

**Eye contact:** Severe eye irritation.

**Ingestion:** No data available.

**Inhalation:** No data available.

**Delayed / immediate effects:** No data available.

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

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

**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:** Wear respiratory protection. Ensure adequate ventilation. Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

**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:** Pick up and arrange disposal without creating dust. Sweep up and shovel. 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 contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

[cont...]

**SAFETY DATA SHEET**  
PHENOL DETACHED CRYSTALS 99% ACS

Page: 4

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

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Recommended storage temperature 2 - 8 °C. Light sensitive. Handle and store under inert gas.

**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**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	7.8 mg/m <sup>3</sup>	16 mg/m <sup>3</sup>	-	-

**8.1. DNEL/PNEC Values**

**DNEL / PNEC** No data available.

**8.2. Exposure controls**

**Engineering measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product

**Respiratory protection:** Particle filter class P3S (EN143). If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** Full contact

Material: butyl-rubber

Minimum layer thickness: 0.3 mm

Break through time: 480 min Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.2 mm

Break through time: 30 min

**Eye protection:** Face-shield. Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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

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

**Section 9: Physical and chemical properties**

[cont...]

**SAFETY DATA SHEET**  
PHENOL DETACHED CRYSTALS 99% ACS

Page: 5

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

**State:** Solid

**Boiling point/range°C:** 182.0 °C

**Flammability limits %: lower:** 1.7

**Flash point°C:** 79.0 °C - closed cup

**Autoflammability°C:** 715.0 °C

**Relative density:** 1.07 g/cm<sup>3</sup>

**Melting point/range°C:** 38 - 43 °C

**upper:** 8.6

**Part.coeff. n-octanol/water:** log Pow: 1.46

**Vapour pressure:** 0.5 hPa at 20.0 °C

**pH:** 6

**9.2. Other information**

**Other information:** Not applicable.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity:** No data available.

**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:** No data available.

**10.5. Incompatible materials**

**Materials to avoid:** Strong oxidising agents. Strong bases. Strong acids.

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Relevant hazards for substance:**

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	INH DRM ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
Germ cell mutagenicity	--	Based on test data
STOT-repeated exposure	-	Based on test data

**Symptoms / routes of exposure**

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

**Eye contact:** Severe eye irritation.

[cont...]

**SAFETY DATA SHEET**  
PHENOL DETACHED CRYSTALS 99% ACS

Page: 6

**Ingestion:** No data available.

**Inhalation:** No data available.

**Delayed / immediate effects:** No data available.

**Other information:** Not applicable.

## Section 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	68.80	mg/l
DAPHNIA	48H EC50	56	mg/l
ALGAE	48H EC50	56	mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** Readily 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:** Toxic to aquatic organisms.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

**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.

[cont...]

**SAFETY DATA SHEET**  
PHENOL DETACHED CRYSTALS 99% ACS

Page: 7

**Section 14: Transport information**

**14.1. UN number**

UN number: UN1671

**14.2. UN proper shipping name**

Shipping name: ADR/RID: PHENOL, SOLID  
IMDG: PHENOL, SOLID  
IATA: Phenol, solid

**14.3. Transport hazard class(es)**

Transport class: 6.1

**14.4. Packing group**

Packing group: 2

**14.5. Environmental hazards**

Environmentally hazardous: Yes

Marine pollutant: Yes

**14.6. Special precautions for user**

Special precautions: No special precautions.

**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**

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: 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.

**Phrases used in s.2 and 3:** H301+311+331: Toxic if swallowed, in contact with skin or if inhaled.

H314: Causes severe skin burns and eye damage.

H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

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>.

[cont...]

## SAFETY DATA SHEET

PHENOL DETACHED CRYSTALS 99% ACS

Page: 8

H411: Toxic to aquatic life with long lasting effects.

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

R34: Causes burns.

R48/20/21/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

R68: Possible risk of irreversible effects.

**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.