

# Material Safety Data Sheet (MSDS)

Prepared according to Regulation EC No. 1907/2006

Revision date: 22/02/2023

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

Product name : **Fenozol**

Product number: 203-50, 203-100

Relevant identified uses: laboratory chemical, for R&D use only.

Uses advised against: undefined

Supplier:

A&A Biotechnology

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Emergency number: 112

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

Laboratory chemicals, Manufacture of substances

## 2. HAZARDS IDENTIFICATION

### Classification and labelling according to regulation (EC) No. 1272/2008



**DANGER**

H301+H311+H331 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.

P261 Avoid breathing dust.

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.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a Poison Center or doctor/ physician.

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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..

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Phenol	CAS No. 108-95-2 EC No. 203-632-7	<45%
Guanidinium chloride	CAS No. 50-01-1 EC No. 200-002-3	<30%
Water	CAS No. 7732-18-5 EC No. 231-791-2	<20%

No components need to be disclosed according to the applicable regulations.

#### 4. FIRST AID MEASURES

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** If breathed in, move the person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

#### 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas.

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Advice for non-emergency personnel: Avoid generation and inhalation of dust in all circumstances. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let products enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in a container for disposal according to local regulations.

#### 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with skin and eyes. Work under hood. Do not inhale substance/mixture.

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

**Conditions for safe storage, including any incompatibilities:** Store in cool place. Keep the container tightly closed in a dry and well-ventilated place. Recommended storage: 4 °C. Light sensitive. Handle and store under inert gas.

**Recommended storage:** 4 °C.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Control parameters

##### Ingredients with workplace control parameters

Component	CAS / Reach No.	Control parameters	Value	Basis
Phenol	CAS 108-95-2 EC 203-632-7	TWA	2 ppm 8 mg/m <sup>3</sup>	Europe. Commission directive 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
	Remarks	Identifies the possibility of significant uptake through the skin Indicative		

		STEL	4 ppm 16 mg/m <sup>3</sup>	Europe. Commision directive 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
	Remarks	Identifies the possibility of significant uptake through the skin Indicative		

Components with workplace control parameters

### Personal protective equipment

**Respiratory protection:** Recommended Filter type: Filter A-(P3) 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.

**Skin protection:** This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Viton® Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M) Millipore-1.00201 Page 7 of 22 The life science business of Merck operates as MilliporeSigma in the US and Canada

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Viton® Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

**Eye/face protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles.

**Body Protection:** Flame retardant antistatic protective clothing.

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

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Form: liquid
	Colour: yellow
<b>Odour:</b>	no data available
<b>pH</b>	no data available
<b>Melting point/freezing point</b>	no data available
<b>Initial boiling point and boiling range</b>	no data available
<b>Flash point</b>	79°C
<b>Evaporation rate</b>	no data available
<b>Flammability (solid, gas)</b>	no data available
<b>Upper/lower flammability or explosive limits</b>	no data available
<b>Vapour pressure</b>	no data available
<b>Vapour density</b>	no data available
<b>Relative density</b>	no data available

<b>Water solubility</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Viscosity</b>	no data available
<b>Oxidizing properties</b>	no data available

**Other information:**

No data

**10. STABILITY AND REACTIVITY**

**Reactivity:** No data available

**Stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** no data available

**Conditions to avoid:** Heat, fire, light

**Incompatible materials:** Rubber, various plastics, various alloys, various metals

**Hazardous decomposition products:** Other decomposition products - No data available

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

<b>Acute toxicity:</b>	no data available
<b>Skin corrosion/irritation:</b>	no data available
<b>Serious eye damage/eye irritation:</b>	no data available
<b>Respiratory or skin sensitization:</b>	no data available
<b>Germ cell mutagenicity:</b>	In vitro tests showed mutagenic effects
<b>Carcinogenicity:</b>	
IARC:	3 - Group 3: Not classifiable as to its carcinogenicity to humans (Phenol) probable, possible or confirmed human carcinogen by IARC.
<b>Reproductive toxicity:</b>	no data available
<b>Specific target organ toxicity - single exposure:</b>	no data available
<b>Specific target organ toxicity - repeated exposure:</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard:</b>	no data available

**Additional Information RTECS:** SJ3325000 Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Circulatory collapse, tachypnea, paralysis, Convulsions, Coma., necrosis of mouth and G.I. Tract, Jaundice, respiratory failure, cardiac arrest To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Endocrine disrupting properties**

None of the ingredients are listed.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12. ECOLOGICAL INFORMATION

<b>Toxicity:</b>	no data available
<b>Persistence and degradability:</b>	no data available
<b>Bioaccumulative potential:</b>	no data available
<b>Mobility in soil:</b>	no data available
<b>Results of PBT and vPvB assessment:</b>	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.
<b>Endocrine disrupting properties:</b>	None of the ingredients are listed.
<b>Other adverse effects:</b>	Toxic to aquatic life with long lasting effects

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:** This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Waste treatment of containers/packaging:** It is a dangerous waste; only packages which are approved (e.g. acc. to ADR) may be used.

**Relevant provisions relating to waste:** The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. W

**Sewage disposal-relevant information:** Do not empty into drains. Avoid release to the environment.

**Remarks:** Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## 14. TRANSPORT INFORMATION

### UN number:

ADR/RID: 2821	IMDG: 2821	ICAO-TI: 2821
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### UN proper shipping name:

ADR/RID: 45% of phenol solution

IMDG: 45% of phenol solution

IATA: 45% of phenol solution

### Transport hazard class(es):

ADR/RID: 6.1	IMDG: 6.1	ICAO-TI: 6.1
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### Packaging group:

ADR/RID: II	IMDG: II	ICAO-TI: II
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### Environmental hazards:

ADR/RID: yes	IMDG: Marine pollutant: yes	ICAO-TI: yes
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**Special precautions for user:** no data available

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008.

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

## 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. A&A Biotechnology, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

MSDS has been prepared in accordance with EC regulation 1272/2008/EC and other European Union legislation in force.

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**DISCLAIMER: For R&D use only. Not for drug, household or other uses.**