

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.03.2014

Revision: 28.03.2014

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

- **Product identifier**
- **Trade name: Pioloform**
- **Article number:** AGR1275
- **CAS Number:**  
70775-95-0
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation:**  
Laboratory chemicals, Manufacture of substances.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agar Scientific  
Elektron Technology UK Ltd  
Parsonage Lane  
Stansted CM24 8GF  
United Kingdom  
sales@agarscientific.com  
Tel: +44 (0) 1279 813 519
- **Further information obtainable from:** Technical Support
- **Emergency telephone number:** 24 hours: +44 (0)1856 407333

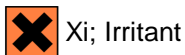
## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H335 May cause respiratory irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



R36/37/38: Irritating to eyes, respiratory system and skin.

- **Information concerning particular hazards for human and environment:**

Low hazard for usual industrial or commercial handling by trained personnel. Exposure to powder or dusts may be irritating to eyes, nose and throat.

Potential health effects:

Routes of exposure: Eye contact. Inhalation. Skin contact.

Eyes: Dust or powder may irritate eye tissue.

Skin: Dust or powder may irritate the skin.

Inhalation: Inhalation of dusts may cause respiratory irritation.

Ingestion: No harmful effects expected in amounts likely to be ingested by accident.

Target organs: Eyes. Respiratory system. Skin.

Chronic effects: Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.

Signs and symptoms: Coughing.

Potential environmental effects: Not regarded as an environmental hazard under current legislation.

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

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Revision: 28.03.2014

**Trade name: Pioloform**

(Contd. of page 1)

**· Label elements****· Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

**· Code letter and hazard designation of product:**

Xi Irritant

**· Risk phrases:**

36/37/38 Irritating to eyes, respiratory system and skin.

**· Other hazards****· Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

**· Chemical characterization: Substances****· CAS No. Description**

70775-95-0 Pioloform

**· Identification number(s) AGR1275****· Additional information:**

Components: Polivinyl acetal (CAS 70775-95-0) >97%.

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4 First aid measures

**· Description of first aid measures**

· **General information:** If you feel unwell, seek medical advice (show the label where possible).

**· After inhalation:**

If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.

· **After skin contact:** Rinse skin with water. Get medical attention if irritation develops and persists.

**· After eye contact:**

Do not rub eye. Rinse with water. Get medical attention if irritation develops and persists.

**· After swallowing:**

Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

· **Information for doctor:** Provide general supportive measures and treat symptomatically.

**· Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**· Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Firefighting measures

**· Extinguishing media**

The product is not flammable. The product may form dust and can accumulate electrostatic charges, which may cause an electrical spark (ignition source). Use proper grounding procedures.

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 28.03.2014

Revision: 28.03.2014

**Trade name: Pioloform***(Contd. of page 2)*

- **Suitable extinguishing agents:**  
Use fire-extinguishing media appropriate for surrounding materials.  
Do not use a solid water stream as it may scatter and spread fire.
- **Special hazards arising from the substance or mixture**  
During fire, gases (carbon oxides) hazardous to health may be formed.
- **Advice for firefighters**  
Use standard firefighting procedures and consider the hazards of other involved materials.
- **Protective equipment:**  
Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment.
- **Environmental precautions:** Environmental manager must be informed of all major spillages.
- **Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Avoid dust formation. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Do not use compressed air when cleaning. For waste disposal, see Section 13 of the MSDS.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices. Maintenance: Use work methods which minimize dust production. Use only in well-ventilated areas. Take precautionary measures against static discharges when there is a risk of dust explosion.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Keep in original container. Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Read and follow manufacturer's recommendations.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:**  
Provide sufficient ventilation for operations causing dust formation. Follow above occupational exposure limit values for dusts. Ventilate as needed to control airborne dust. Use explosion-proof electrical equipment if airborne dust levels are high.

*(Contd. on page 4)*

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 28.03.2014

Revision: 28.03.2014

**Trade name: Pioloform**

(Contd. of page 3)

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**70775-95-0 Pioloform**

PEL	Short-term value: 5-15 mg/m <sup>3</sup>
TWA	Short-term value: 3-10 mg/m <sup>3</sup>

- **Additional information:** The lists valid during the making were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin.

Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

- **Respiratory protection:**

Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:**

Wear suitable protective clothing. It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Powder

**Colour:** Colourless

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 28.03.2014

Revision: 28.03.2014

**Trade name: Pioloform**

(Contd. of page 4)

· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	Not applicable.
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gaseous):</b>	Product is not flammable.
· <b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Not determined.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not applicable.
· <b>Density at 20 °C:</b>	1.1 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Not determined.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Other information</b>	Percent volatile: < 2.5 % w/w

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability** Material is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Hazardous polymerization does not occur.
- **Conditions to avoid** Contact with incompatible materials. Avoid dust close to ignition sources.
- **Incompatible materials:** Strong oxidising agents. Strong acids.
- **Hazardous decomposition products:** Carbon monoxide.

## 11 Toxicological information

- **Information on toxicological effects**  
Dusts or powder may irritate the respiratory tract, skin and eyes.
- **Acute toxicity:**
- **Specific symptoms in biological assay:**  
Dust may irritate throat and respiratory system and cause coughing. Direct contact with eyes may cause temporary irritation.

(Contd. on page 6)

# Safety data sheet

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Revision: 28.03.2014

**Trade name: Pioloform**

*(Contd. of page 5)*

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Not a skin sensitizer.
- **Subacute to chronic toxicity:**  
Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Prolonged and repeated overexposure to dust can lead to pneumoconiosis. Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure to this product.
- **Additional toxicological information:**  
Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.
- **Repeated dose toxicity**  
Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

### 12 Ecological information

- **Toxicity**  
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods** Dispose of in accordance with local regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· <b>UN-Number</b>	Not regulated.
· <b>UN proper shipping name</b>	Not regulated.
· <b>Transport hazard class(es)</b>	Not regulated.
· <b>Packing group</b>	Not regulated.
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No Yes (PP)
· <b>Special precautions for user</b>	Not applicable.

*(Contd. on page 7)*

# Safety data sheet

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(Contd. of page 6)

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

## 15 Regulatory information

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Sales department
- **Contact:**  
sales@agarscientific.com  
Tel: +44 (0) 1279 813 519
- **Abbreviations and acronyms:**  
PP: Severe Marine Pollutant  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CAS: Chemical Abstracts Service (division of the American Chemical Society)

GB