

**Safety data sheet**  
according to 1907/2006/EC, Article 31

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** AquiStain RED
- **Article number:** AS-011025
- **CAS Number:**  
67-68-5
- **EC number:**  
200-664-3
  
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Chemical products for laboratory
  
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
AquiStain SAS  
Domaine du Haut-Carré, Bâtiment C5  
351 Cours de la Libération  
33400 Talence  
France  
Tel.: +33 (0)6 33 63 66 53  
contact@aquistain.com
  
- **1.4 Emergency telephone number:** EU Tel : 112

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
-  **GHS07**  
  
Skin Irrit. 2            H315 Causes skin irritation.  
Eye Irrit. 2            H319 Causes serious eye irritation.
  
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**
-  **GHS07**
- **Signal word** Warning

- **Hazard-determining components of labeling:**  
*Dimethyl sulfoxide*
  - **Hazard statements**  
*H315 Causes skin irritation.*  
*H319 Causes serious eye irritation.*
  - **Precautionary statements**  
*P264 Wash thoroughly after handling.*  
*P280 Wear protective gloves/protective clothing/eye protection/face protection.*  
*P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*  
*P332+P313 If skin irritation occurs: Get medical advice/attention.*  
*P337+P313 If eye irritation persists: Get medical advice/attention.*  
*P302+P352 IF ON SKIN: Wash with plenty of water.*
  - **2.3 Other hazards –**
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
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### SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
  - **CAS No. Description**  
*67-68-5 Dimethyl sulfoxide*
  - **Identification number(s):**
  - **EC number:** 200-664-3
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### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
  - **After inhalation:** *In case of unconsciousness place patient stably in side position for transportation.*
  - **After skin contact:**  
*Immediately wash with water and soap and rinse thoroughly. Wash contaminated clothing before reuse.*
  - **After eye contact:**  
*Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*
  - **After swallowing:** *Do not induce vomiting; call for medical help immediately.*
  - **4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
  - **Information for doctor:** *Show the doctor this Material Safety Data Sheet.*
  - **4.3 Indication of any immediate medical attention and special treatment needed**  
*No further relevant information available.*
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## SECTION 5: Firefighting measures

- **General Information:**  
*As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.*
  - **5.1 Extinguishing media**
  - **Suitable extinguishing agents:**  
*CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
  - **5.2 Special hazards arising from the substance or mixture**  
*Sulfur Oxides (SO<sub>x</sub>)  
Carbon monoxide and carbon dioxide*
  - **5.3 Advice for firefighters**
  - **Protective equipment:** *Do not inhale gases in case of fire or combustion.*
  - **Additional information** *Keep receptacles cool with water spray.*
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## SECTION 6: Accidental release measures

- **General Information:** *Use proper personal protective equipment as indicated in Section 8.*
  - **6.1 Personal precautions, protective equipment and emergency procedures**  
*Use respiratory protective device against the effects of fumes.  
Ensure adequate ventilation*
  - **6.2 Environmental precautions:**  
*Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water after collecting the liquid.  
Do not allow to enter sewers/ surface or ground water.*
  - **6.3 Methods and material for containment and cleaning up:**  
*Collect the liquid with vacuum in a suitable container and absorb the remainder with a porous material (diatomite, acid binders, universal binders, etc).*
  - **6.4 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.*
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## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** *Prevent formation of aerosols.*
- **Information about fire - and explosion protection:**  
*Do not spray onto a naked flame or any incandescent material.*
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *Store at -15 to -25 °C.*

- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **7.3 Specific end use(s)** Avoid exposure to light. Do not allow moisture inside container.

**SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** TLV not established.

<b>67-68-5 Dimethyl sulfoxide (80-100%)</b>
· <b>DNELs</b>
Oral / LD50 / 14500 mg/kg (rat)

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:**  
The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.



Protective gloves

Rubber gloves

- **Material of gloves**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.  
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:**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

## SECTION 9: Physical and chemical properties

<ul style="list-style-type: none"> <li>· <b>9.1 Information on basic physical and chemical properties</b></li> <li>· <b>General information</b></li> <li>· <b>Appearance:</b></li> </ul>	
<b>Form:</b>	Fluid
<b>Colour:</b>	Yellow
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
<ul style="list-style-type: none"> <li>· <b>Change in condition</b></li> <li style="padding-left: 20px;"><b>Melting point/Melting range:</b> 18.45 °C</li> <li style="padding-left: 20px;"><b>Boiling point/Boiling range:</b> 189 °C</li> <li>· <b>Flash point:</b> 95 °C</li> <li>· <b>Flammability (solid, gaseous):</b> Not applicable.</li> <li>· <b>Ignition temperature:</b> 270 °C</li> <li>· <b>Decomposition temperature:</b> Not determined.</li> <li>· <b>Self-igniting:</b> Not determined.</li> <li>· <b>Danger of explosion:</b> Product does not present an explosion hazard.</li> <li>· <b>Explosion limits:</b></li> <li style="padding-left: 20px;"><b>Lower:</b> 1.8 Vol %</li> <li style="padding-left: 20px;"><b>Upper:</b> 63 Vol %</li> <li>· <b>Vapour pressure at 20 °C:</b> 2.5 hPa</li> <li>· <b>Density at 20 °C:</b> 1.1 g/cm<sup>3</sup></li> <li>· <b>Relative density</b> Not determined.</li> <li>· <b>Vapour density</b> Not determined.</li> <li>· <b>Evaporation rate</b> Not determined.</li> <li>· <b>Solubility in / Miscibility with</b></li> <li style="padding-left: 20px;"><b>water:</b> Fully miscible.</li> <li>· <b>organic solvents:</b> Soluble in many organic solvents.</li> </ul>	
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 25 °C:</b>	198 mPas
<b>Kinematic:</b>	Not determined.
· <b>Solids content:</b>	10.0 %
· <b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** See 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Carbon monoxide, Carbon dioxide.  
In case of fire: Sulfur oxides (SO<sub>x</sub>)

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Ingestion:** It can be harmful if swallowed.
- **Inhalation:** May be harmful if inhaled.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Other information (about experimental toxicology):** No more relevant data available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **Method**
- **Ecological information** Not available
- **Other information:** No available data.

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** No available data.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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## **SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
  - **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system. Reutilise if possible or contact a waste processors for recycling or safe disposal.
  - **Waste disposal key:**  
The European Union does not establish uniform rules for the disposal of chemical waste, which are special waste. Their treatment and elimination of the domestic legislation of each country. So, in each case, you should contact the relevant authorities, or those companies legally authorized for elimination of waste. 2001/573/EC: Council Decision of 23 July 2001 amending the list of wastes contained in Decision 2000/532/ EC.  
Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.
  - **Uncleaned packaging:**  
The containers and packing materials contaminated with dangerous substances or preparations, have the same treatment products.  
Directive 94/62/EC of the European Parliament and the Council of 20 December 1994 on packaging and packaging waste.
  - **Recommendation:**  
Disposal must be made according to official regulations.  
Packagings that may not be cleansed are to be disposed of in the same manner as the product.  
Wash with solvents to be incinerated.
  - **Recommended cleansing agents:** Water, if necessary together with cleansing agents.
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**SECTION 14: Transport information**

· <b>14.1 UN-Number</b>	–
· <b>ADR, ADN, IMDG, IATA</b>	Void
· <b>14.2 UN proper shipping name</b>	–
· <b>ADR, ADN</b>	Void
· <b>IMDG, IATA</b>	N.A.
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I Substance is not listed.**
- **REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3**
- **National regulations:**
- **Information about limitation of use: -**
- **Technical instructions (air):**

Class	Share in %
NK	50-100
- **Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.**
- **15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

**SECTION 16: Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Department issuing SDS: Q.A./Normative**
- **Abbreviations and acronyms:**
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*
  - ICAO: International Civil Aviation Organisation*



*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*DNEL: Derived No-Effect Level (REACH)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*