

# Material Safety Data Sheet

Printing date 03/13/2013

Reviewed on 12/10/2012

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

- **Product identifier**
- **Trade name:** External Well Factor Solution
- **Catalog or product number:** 1708794, 9704063
- **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
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Bio-Rad Laboratories, Life Science Group  
2000 Alfred Nobel Drive  
Hercules, California 94547 (510)741-1000
- **Information department:**  
Technical services, customer support  
lsg\_techserv\_us@bio-rad.com
- **Emergency telephone number:**  
1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT.  
510-741-1000

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** not applicable
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.  
The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.
- **Label elements**
- **Labelling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals  
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).
- **Safety phrases:**  
60 This material and its container must be disposed of as hazardous waste.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with non-hazardous additions.

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## Listing of dangerous and non-hazardous components:

1132-61-2	4-morpholinopropanesulphonic acid	Xn R21/22	10-20%
81-88-9	9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride	Xn R22 Xi R37/38-41	0.1-1.0%
	5'-Fluorescein phosphoramidite		0.1-1.0%
7732-18-5	water		50-100%

Additional information For the wording of the listed risk phrases refer to section 15.

## 4 First aid measures

- **Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Generally the product does not irritate the skin.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Induce vomiting and call for medical help.
- **Information for doctor**
- **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**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
No dangerous substances are released.  
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** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** According to product specification
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures** The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:** Protective gloves.
- **Material of gloves:** Synthetic gloves
- **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:** Safety glasses

### 9 Physical and chemical properties

#### • Information on basic physical and chemical properties

##### • General Information

##### • Appearance:

Form:	Liquid
Color:	Pink
Odor:	Odorless
Odour threshold:	Not determined.

##### • pH-value at 20 °C:

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##### • Change in condition

Melting point/Melting range:	undetermined
Boiling point/Boiling range:	undetermined

##### • Flash point:

Not applicable

##### • Flammability (solid, gaseous)

Not applicable.

##### • Ignition temperature:

Decomposition temperature:	Not determined.
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##### • Auto igniting:

Product is not selfigniting.

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- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Vapor pressure at 20 °C:** 23 hPa
- **Density:** Not determined
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with Water:** Fully miscible
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - dynamic: Not determined.
  - kinematic: Not determined.
- **Solvent content:**
  - Organic solvents: 0.0 %
  - Water: 89.0 %
- **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

### 11 Toxicological information

#### • Information on toxicological effects

- **Acute toxicity:**
- **Primary irritant effect:**
  - on the skin: No irritant effect.
  - on the eye: No irritant effect.
- **Sensitization:** No sensitizing effects known.

#### • Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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## Carcinogenic categories

## IARC (International Agency for Research on Cancer)

81-88-9 | 9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylum chloride

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## NTP (National Toxicology Program)

None of the ingredients is listed.

## Target organs: Not applicable.

## 12 Ecological information

## Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

## Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

## Additional ecological information:

General notes: Generally not hazardous for water.

## 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

## Recommendation

Hand over to hazardous waste disposers.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

## Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

## 14 Transport information

## UN-Number

DOT, ADR, ADN, IMDG, IATA

Void

## UN proper shipping name

DOT, ADR, ADN, IMDG, IATA

Void

## Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA

## Class

Void

## Packing group

DOT, ADR, IMDG, IATA

Void

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## Environmental hazards:

Marine pollutant: No

Special precautions for user: Not applicable.

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

Transport/Additional information: Not dangerous according to the above specifications.

## 15 Regulatory information

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

## SARA (Superfund Amendments and Reauthorization Act of 1986 - USA)

## Section 302/304 (40CFR355.30 / 40CFR355.40):

None of the ingredients is listed.

## Section 313 (40CFR372.65):

81-88-9 | 9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylum chloride

## TSCA (Toxic Substances Control Act):

1132-61-2 | 4-morpholinopropanesulphonic acid

81-88-9 | 9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylum chloride

518-47-8 | disodium 2-(3-oxo-6-oxidoxanthene-9-yl)benzoate

7732-18-5 | water

## California Proposition 65:

## Chemicals known to cause cancer:

81-88-9 | 9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylum chloride

## Carcinogenic categories

## EPA (Environmental Protection Agency)

None of the ingredients is listed.

## TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

## MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

## NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

## OSHA-Ca (Occupational Safety &amp; Health Administration)

None of the ingredients is listed.

## National regulations

Water hazard class: Generally not hazardous for water.

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

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### 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 MSDS:** Environmental Health and Safety.

• **Contact:**

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

• **\* Data compared to the previous version altered.**

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