



# Innova Biosciences

## Material Safety Data Sheet

### P<sub>i</sub>ColorLock™ ALS

#### 1. Identification of the Substance/Preparation and the Company

Substance or preparation trade name: P<sub>i</sub>ColorLock™ ALS reagent  
Unique reference numbers(s): #302  
Company identification: Innova Biosciences Ltd.  
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#### 2. Composition/information on ingredients

| Name:               | CAS No.    | Contents:<br>(in dH <sub>2</sub> O) | Symbol | Risk :<br>(R No.) |
|---------------------|------------|-------------------------------------|--------|-------------------|
| Potassium phosphate | 7778-53-2  | <1 mM                               |        | 36, 38            |
| Hydrochloric acid   | 7647-01-0  | <5 %                                | C      | 34, 37            |
| Ammonium molybdate  | 12054-85-2 | <1%                                 | XN     | 38, 43, 51/53     |

The full text for all R-phrases is shown in section 16

**Composition comments:** An acidic solution containing bio-indicating salts.  
Smaller accompanying bottles (Accelerator, Stabiliser, P<sub>i</sub> standard) contain dilute aqueous solutions of substances which have no reportable hazard, but see section 3 for handling instructions.

#### 3. Hazards Identification

Most important hazards: P<sub>i</sub>ColorLock™ ALS reagent contains 1N hydrochloric acid. It is advisable to treat this with extreme caution as it may cause irritation or burns if in contact with skin or eyes, and may be harmful if ingested or inhaled.

Specific hazards: The physical, chemical and toxicological properties of the other components of the kit have not been fully evaluated. It is therefore advised that all laboratory personnel handling the product should follow standard laboratory safety procedures; wear suitable protective clothing, goggles and

gloves at all times, and avoid direct contact with the reagents supplied in the kit.

#### 4. First aid measures

Skin contact: Wash with soap and water for at least 15 minutes. Remove contaminated clothing and shoes. If discomfort or irritation develops, seek medical attention.

Eye contact: Check for and remove contact lenses. Flush eyes thoroughly with running water for at least 15 minutes while lifting eyelids. **Seek medical attention immediately.**

Ingestion: Check for and remove dentures. Clear mouth. **Call doctor or poison control immediately.** Provide chemical label and MSDS information if possible.

Inhalation: Remove from area of exposure. Seek medical attention if patient shows signs of discomfort or respiratory problems. If breathing becomes difficult, oxygen should be administered.

#### 5. Fire fighting measures

None of the components of this kit pose a significant risk in the event of fire. It is recommended that firefighters should wear protective gear and self-contained breathing apparatus to limit personal exposure, and select firefighting media appropriate to the other materials involved in the fire.

#### 6. Accidental release measures

Personal precautions: Wear appropriate protective gear; see below under “Exposure control”

Methods for cleaning: Wipe up spill, place in sealed container and hold for disposal.  
Spill site should be washed with plenty of water.

Disposal precautions: Dispose of all waste in accordance with local authority regulations.

#### 7. Handling and storage

Handling: This product should be handled only by qualified experienced professionals. Wash thoroughly after handling the materials contained in this kit.

Storage: P,ColorLock™ ALS reagent should be stored at 4°C. All components should be stored in tightly closed containers

#### 8. Exposure control and personal protection

| Ingredient name   | CAS No.   | STD | LT EXP.<br>(8hrs) | ST EXP.<br>(15min) |
|-------------------|-----------|-----|-------------------|--------------------|
| Hydrochloric acid | 7647-01-0 | OES | 1ppm              | 5ppm               |

Protective equipment: For spill cleanup, suitable protective clothing should be worn; chemical-resistant rubber gloves and boots, and chemical safety goggles.

Self-contained breathing apparatus or a NIOSH/MSHA approved respirator is recommended.

## 9. Physical and chemical properties

|                       |                       |
|-----------------------|-----------------------|
| Appearance:           | Straw-coloured liquid |
| pH:                   | <1                    |
| Melting point:        | <0°C                  |
| Flashpoint:           | N/A                   |
| Explosive properties: | N/A                   |
| Vapour pressure:      | 23mbar                |
| Relative density:     | 1.05                  |
| Solubility:           | Miscible with water   |

## 10. Stability and reactivity

This material is stable for up to 12 months if stored as directed.

|                                   |   |
|-----------------------------------|---|
| Conditions to avoid:              | Excessive heat                          |
| Materials to avoid:               | Strong alkalis, strong oxidizing agents |
| Hazardous decomposition products: | Hydrogen chloride gas                   |

## 11. Toxicological information

|                       |  |
|-----------------------|--|
| Toxic dose LD-50:     | Not known                                      |
| Health warnings:      | No specific warnings noted                     |
| Other health effects: | May cause sensitization to susceptible persons |

## 12. Ecological information

Environmental hazards – no data available for the product itself

## 13 Disposal Considerations

Dispose of in accordance with local authority guidelines

## 14. Transport information

### Road/Rail:

Road/Rail transport notes: Product not classified as dangerous goods under any transport regulation

### Sea/Air:

Sea/Air transport notes: Product not classified as dangerous goods under any transport regulation

## 15. Regulatory information

|                                  |  |
|----------------------------------|--|
| <b>Risk phrases</b>              | Not classified   |
| <b>Safety phrases</b>            | P-14 Contains Ammonium Molybdate. May produce an allergic reaction   |
| <b>EC Directives</b>             | System of specific information relating to Dangerous Preparations. 91\155  |
| <b>Approved Code of Practice</b> | Classification and Labelling of Substances and Preparations Dangerous for Supply                                     |
| <b>Guidance Notes</b>            | Occupational Exposure Limits EH40<br>Introduction to Local Exhaust Ventilation HS(G)37<br>CHIP for everyone HSG(108) |

## 16. Other Information

|                             |  |
|-----------------------------|--|
| <b>Revision date:</b>       | 11 <sup>th</sup> Mar. 2004   |
| <b>Replaces SDS issued:</b> | n/a (first edition)  |
| <b>R-phrases full text:</b> | R-34 Causes burns  |
|                             | R-36 Irritating to eyes  |
|                             | R-37 Irritating to respiratory system  |
|                             | R-38 Irritating to skin  |
|                             | R-43 May cause sensitization by skin contact   |
|                             | R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |

*This information is based solely on data provided by suppliers of the materials used and/or recognized technical sources, not on the mixture itself and is believed to be correct as of this date. No warranty is expressed or implied regarding the accuracy of the data.*