

# Color Standard, Pt-Co, 50 units

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/04/2013

Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
 Product name : Color Standard, Pt-Co, 50 units  
 Product code : LC13294

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

Use of the substance/mixture : For laboratory and manufacturing use only.

#### 1.3. Details of the supplier of the safety data sheet

LabChem Inc  
 Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court  
 Zelienople, PA 16063 - USA  
 T 412-826-5230 - F 724-473-0647  
[info@labchem.com](mailto:info@labchem.com) - [www.labchem.com](http://www.labchem.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Not classified

#### 2.2. Label elements

##### GHS-US labelling

No labelling applicable

#### 2.3. Other hazards

Other hazards not contributing to the classification : None.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixture

| Name                             | Product identifier  | %     | GHS-US classification                                                                                                                                                           |
|----------------------------------|---------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water                            | (CAS No) 7732-18-5  | 99.53 | Not classified                                                                                                                                                                  |
| Hydrochloric Acid, 37% w/w       | (CAS No) 7647-01-0  | 0.44  | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>Aquatic Acute 3, H402                                                                |
| Potassium Hexachloroplatinate    | (CAS No) 16921-30-5 | 0.02  | Acute Tox. 3 (Oral), H301<br>Eye Dam. 1, H318<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317                                                                                      |
| Cobalt(II) Chloride, Hexahydrate | (CAS No) 7791-13-1  | 0.01  | Acute Tox. 4 (Oral), H302<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>Muta. 2, H341<br>Carc. 1B, H350<br>Repr. 1B, H360<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

# Color Standard, Pt-Co, 50 units

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- |                                       |                                                                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation   | : Assure fresh air breathing. Allow the victim to rest.                                                                           |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.                 |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.                          |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.                                                        |

#### 4.2. Most important symptoms and effects, both acute and delayed

- |                                      |                                                                                            |
|--------------------------------------|--------------------------------------------------------------------------------------------|
| Symptoms/injuries                    | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/injuries after inhalation   | : Possible inflammation of the respiratory tract.                                          |
| Symptoms/injuries after skin contact | : Slight irritation.                                                                       |
| Symptoms/injuries after eye contact  | : May cause slight irritation.                                                             |
| Symptoms/injuries after ingestion    | : Nausea. Vomiting. Irritation of the gastric/intestinal mucosa. Diarrhoea.                |
| Chronic symptoms                     | : Affection/discolouration of the teeth.                                                   |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- |                                |                                                        |
|--------------------------------|--------------------------------------------------------|
| Suitable extinguishing media   | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                     |

#### 5.2. Special hazards arising from the substance or mixture

- |                  |                   |
|------------------|-------------------|
| Fire hazard      | : Not flammable.  |
| Explosion hazard | : Not applicable. |

#### 5.3. Advice for firefighters

- |                                |                                                                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.                                                                     |
| Other information              | : Not applicable.                                                                                                                                                   |

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- |                  |                                                |
|------------------|------------------------------------------------|
| General measures | : Try to stop release. Dike and contain spill. |
|------------------|------------------------------------------------|

##### 6.1.1. For non-emergency personnel

- |                      |                                   |
|----------------------|-----------------------------------|
| Protective equipment | : Gloves. Safety glasses.         |
| Emergency procedures | : Evacuate unnecessary personnel. |

##### 6.1.2. For emergency responders

- |                      |                                              |
|----------------------|----------------------------------------------|
| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Ventilate area.                            |

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- |                         |                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# Color Standard, Pt-Co, 50 units

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.  
Incompatible products : metals. cyanides. Strong bases.  
Incompatible products : Direct sunlight.  
Packaging materials : Do not store in corrodable metal.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Potassium Hexachloroplatinate (16921-30-5) |                        |                                  |
|--------------------------------------------|------------------------|----------------------------------|
| USA ACGIH                                  | ACGIH TWA (mg/m³)      | 0.002 mg/m³ As Pt, soluble salts |
| USA OSHA                                   | OSHA PEL (TWA) (mg/m³) | 0.002 mg/m³ As Pt, soluble salts |

| Cobalt(II) Chloride, Hexahydrate (7791-13-1) |                        |            |
|----------------------------------------------|------------------------|------------|
| USA ACGIH                                    | ACGIH TWA (mg/m³)      | 0.02 mg/m³ |
| USA OSHA                                     | OSHA PEL (TWA) (mg/m³) | 0.1 mg/m³  |

#### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.  
Personal protective equipment : Avoid all unnecessary exposure.  
Hand protection : Wear protective gloves.  
Eye protection : Chemical goggles or safety glasses.  
Respiratory protection : Wear appropriate mask.  
Other information : Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Colour : Yellow.  
Odour : Odourless.  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Self ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : No data available  
Density : 1 g/ml  
Solubility : Soluble in water. Soluble in ethanol. Soluble in methanol.  
Log Pow : No data available

# Color Standard, Pt-Co, 50 units

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|                      |                     |
|----------------------|---------------------|
| Log Kow              | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic   | : No data available |
| Explosive properties | : Not applicable.   |
| Oxidising properties | : None.             |
| Explosive limits     | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

metals. cyanides. Strong bases.

### 10.6. Hazardous decomposition products

Hydrogen chloride.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Hydrochloric Acid, 37% w/w (7647-01-0) |            |
|----------------------------------------|------------|
| LD50 oral rat                          | 700 mg/kg  |
| LD50 dermal rabbit                     | 5010 mg/kg |

| Water (7732-18-5) |               |
|-------------------|---------------|
| LD50 oral rat     | ≥ 90000 mg/kg |

| Cobalt(II) Chloride, Hexahydrate (7791-13-1) |                    |
|----------------------------------------------|--------------------|
| LD50 oral rat                                | 766 mg/kg (Rat)    |
| LD50 dermal rat                              | > 2000 mg/kg (Rat) |

|                                   |                  |
|-----------------------------------|------------------|
| Skin corrosion/irritation         | : Not classified |
| Serious eye damage/irritation     | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity            | : Not classified |
| Carcinogenicity                   | : Not classified |

| Hydrochloric Acid, 37% w/w (7647-01-0) |                      |
|----------------------------------------|----------------------|
| IARC group                             | 3 - Not classifiable |

| Cobalt(II) Chloride, Hexahydrate (7791-13-1) |                                      |
|----------------------------------------------|--------------------------------------|
| IARC group                                   | 2B - Possibly carcinogenic to humans |

|                                                  |                  |
|--------------------------------------------------|------------------|
| Reproductive toxicity                            | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

# Color Standard, Pt-Co, 50 units

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|                                                     |                                                                             |
|-----------------------------------------------------|-----------------------------------------------------------------------------|
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met.         |
| Symptoms/injuries after inhalation                  | : Possible inflammation of the respiratory tract.                           |
| Symptoms/injuries after skin contact                | : Slight irritation.                                                        |
| Symptoms/injuries after eye contact                 | : May cause slight irritation.                                              |
| Symptoms/injuries after ingestion                   | : Nausea. Vomiting. Irritation of the gastric/intestinal mucosa. Diarrhoea. |
| Chronic symptoms                                    | : Affection/discolouration of the teeth.                                    |

## SECTION 12: Ecological information

### 12.1. Toxicity

| Hydrochloric Acid, 37% w/w (7647-01-0)       |                                                     |
|----------------------------------------------|-----------------------------------------------------|
| LC50 fishes 1                                | 282 mg/l (96 h; Gambusia affinis; Pure substance)   |
| EC50 Daphnia 1                               | < 56 mg/l (72 h; Daphnia magna; Pure substance)     |
| LC50 fish 2                                  | 862 mg/l (Leuciscus idus; Pure substance)           |
| TLM fish 1                                   | 282 ppm (96 h; Gambusia affinis; Pure substance)    |
| Cobalt(II) Chloride, Hexahydrate (7791-13-1) |                                                     |
| LC50 fishes 1                                | 22 - 48 ppm (96 h; Pimephales promelas; Cobalt ion) |
| EC50 Daphnia 1                               | 1.1 - 3.2 mg/l (48 h; Daphnia magna; Cobalt ion)    |
| Threshold limit algae 1                      | 0.05 mg/l (72 h; Selenastrum capricornutum; Cobalt) |

### 12.2. Persistence and degradability

| Color Standard, Pt-Co, 50 units              |                                                                                                         |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Persistence and degradability                | Not established.                                                                                        |
| Hydrochloric Acid, 37% w/w (7647-01-0)       |                                                                                                         |
| Persistence and degradability                | Biodegradability: not applicable. No (test)data on mobility of the components of the mixture available. |
| Biochemical oxygen demand (BOD)              | Not applicable                                                                                          |
| Chemical oxygen demand (COD)                 | Not applicable                                                                                          |
| ThOD                                         | Not applicable                                                                                          |
| BOD (% of ThOD)                              | Not applicable                                                                                          |
| Water (7732-18-5)                            |                                                                                                         |
| Persistence and degradability                | Not established.                                                                                        |
| Potassium Hexachloroplatinate (16921-30-5)   |                                                                                                         |
| Persistence and degradability                | Biodegradability: not applicable.                                                                       |
| Biochemical oxygen demand (BOD)              | Not applicable                                                                                          |
| Chemical oxygen demand (COD)                 | Not applicable                                                                                          |
| ThOD                                         | Not applicable                                                                                          |
| BOD (% of ThOD)                              | Not applicable                                                                                          |
| Cobalt(II) Chloride, Hexahydrate (7791-13-1) |                                                                                                         |
| Persistence and degradability                | Biodegradability: not applicable. Biodegradability in soil: not applicable.                             |
| Biochemical oxygen demand (BOD)              | Not applicable                                                                                          |
| Chemical oxygen demand (COD)                 | Not applicable                                                                                          |
| ThOD                                         | Not applicable                                                                                          |
| BOD (% of ThOD)                              | Not applicable                                                                                          |

### 12.3. Bioaccumulative potential

| Color Standard, Pt-Co, 50 units        |                                                  |
|----------------------------------------|--------------------------------------------------|
| Bioaccumulative potential              | Not established.                                 |
| Hydrochloric Acid, 37% w/w (7647-01-0) |                                                  |
| Log Pow                                | 0.25 (QSAR)                                      |
| Bioaccumulative potential              | Low potential for bioaccumulation (Log Kow < 4). |
| Water (7732-18-5)                      |                                                  |
| Bioaccumulative potential              | Not established.                                 |

# Color Standard, Pt-Co, 50 units

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Potassium Hexachloroplatinate (16921-30-5)

|                           |                                    |
|---------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |
|---------------------------|------------------------------------|

#### 12.4. Mobility in soil

### Hydrochloric Acid, 37% w/w (7647-01-0)

|                |                                                               |
|----------------|---------------------------------------------------------------|
| Ecology - soil | May be harmful to plant growth, blooming and fruit formation. |
|----------------|---------------------------------------------------------------|

### Cobalt(II) Chloride, Hexahydrate (7791-13-1)

|                |                 |
|----------------|-----------------|
| Ecology - soil | Toxic to flora. |
|----------------|-----------------|

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT

No dangerous good in sense of transport regulations

### Additional information

Other information : No supplementary information available.

### ADR

Transport document description :

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Hydrochloric Acid, 37% w/w (7647-01-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

|                                                                |         |
|----------------------------------------------------------------|---------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) : | 5000 lb |
|----------------------------------------------------------------|---------|

|                                     |                                 |
|-------------------------------------|---------------------------------|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
|-------------------------------------|---------------------------------|

#### Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Potassium Hexachloroplatinate (16921-30-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Cobalt(II) Chloride, Hexahydrate (7791-13-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

#### Color Standard, Pt-Co, 50 units

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|-------------------------------------------------------------------------------|

#### Hydrochloric Acid, 37% w/w (7647-01-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

|                      |                              |
|----------------------|------------------------------|
| WHMIS Classification | Class E - Corrosive Material |
|----------------------|------------------------------|

# Color Standard, Pt-Co, 50 units

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Water (7732-18-5)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

### Potassium Hexachloroplatinate (16921-30-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

### Cobalt(II) Chloride, Hexahydrate (7791-13-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

### EU-Regulations

No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

Not classified

### 15.2.2. National regulations

#### Hydrochloric Acid, 37% w/w (7647-01-0)

Listed on the Canadian Ingredient Disclosure List

#### Potassium Hexachloroplatinate (16921-30-5)

Listed on the Canadian Ingredient Disclosure List

#### Cobalt(II) Chloride, Hexahydrate (7791-13-1)

Listed on the Canadian Ingredient Disclosure List

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

|                     |                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------|
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3                                                          |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                                                          |
| Aquatic Acute 1     | Hazardous to the aquatic environment — AcuteHazard, Category 1                             |
| Aquatic Acute 3     | Hazardous to the aquatic environment — AcuteHazard, Category 3                             |
| Aquatic Chronic 1   | Hazardous to the aquatic environment — Chronic Hazard, Category 1                          |
| Carc. 1B            | Carcinogenicity, Category 1B                                                               |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1                                              |
| Muta. 2             | Germ cell mutagenicity, Category 2                                                         |
| Repr. 1B            | Reproductive toxicity, Category 1B                                                         |
| Resp. Sens. 1       | Sensitisation — Respiratory, category 1                                                    |
| Skin Corr. 1B       | Skin corrosion/irritation, Category 1B                                                     |
| Skin Sens. 1        | Sensitisation — Skin, category 1                                                           |
| STOT SE 3           | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H301                | Toxic if swallowed                                                                         |
| H302                | Harmful if swallowed                                                                       |
| H314                | Causes severe skin burns and eye damage                                                    |
| H317                | May cause an allergic skin reaction                                                        |
| H318                | Causes serious eye damage                                                                  |

# Color Standard, Pt-Co, 50 units

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|      |                                                                           |
|------|---------------------------------------------------------------------------|
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H335 | May cause respiratory irritation                                          |
| H341 | Suspected of causing genetic defects                                      |
| H350 | May cause cancer                                                          |
| H360 | May damage fertility or the unborn child                                  |
| H400 | Very toxic to aquatic life                                                |
| H402 | Harmful to aquatic life                                                   |
| H410 | Very toxic to aquatic life with long lasting effects                      |

NFPA health hazard

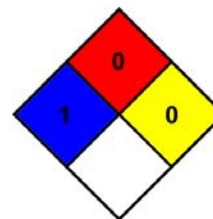
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 0 - Materials that will not burn.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

Personal Protection : B

SDS US (GHS HazCom 2012)

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