

# Palintest

Water Analysis Technologies

## SAFETY DATA SHEET RED 2 SOLUTION

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

### 1. Identification

#### Product identifier

**Product name** RED 2 SOLUTION

**Product number** PT226, PT753, LR-9920, SKW400, SKW400NPK, SKW500, PT232/US, PT791, PT802, PT804

#### Recommended use of the chemical and restrictions on use

**Application** Testing water

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

**Supplier** PALINTEST USA  
400 CORPORATE CIRCLE  
SUITE J  
GOLDEN  
COLORADO  
80401  
USA  
Tel: (720) 221-6878  
Fax: (720) 496-4766  
info@palintestusa.com

#### Emergency telephone number

**Emergency telephone** +44 (0)207 858 1228 (24hr)

**National emergency telephone number** +44 (0)207 858 1228 (24hr) +44 (0)207 858 1228 (24hr)

### 2. Hazard(s) identification

#### Classification of the substance or mixture

**Physical hazards** Met. Corr. 1 - H290

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1B - H350 Repr. 1B - H360F

**Environmental hazards** Aquatic Acute 2 - H401 Aquatic Chronic 2 - H411

#### Label elements

##### Hazard symbols



**Signal word**

Danger

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<b>Hazard statements</b>	<p>H290 May be corrosive to metals.  H315 Causes skin irritation.  H319 Causes serious eye irritation.  H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  H317 May cause an allergic skin reaction.  H341 Suspected of causing genetic defects.  H350 May cause cancer.  H360F May damage fertility.  H411 Toxic to aquatic life with long lasting effects.</p>
<b>Precautionary statements</b>	<p>P202 Do not handle until all safety precautions have been read and understood.  P234 Keep only in original container.  P302+P352 If on skin: Wash with plenty of water.  P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.  P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  P501 Dispose of contents/ container in accordance with local regulations.</p>
<b>Contains</b>	COBALT DICHLORIDE

### Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

### 3. Composition/information on ingredients

#### Mixtures

<b>HYDROCHLORIC ACID 37%</b> <span style="float: right;"><b>&lt;3.1%</b></span> CAS number: 7647-01-0
<b>Classification</b> Met. Corr. 1 - H290 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335
<b>COBALT DICHLORIDE</b> <span style="float: right;"><b>&lt;3.1%</b></span> CAS number: 7646-79-9 M factor (Acute) = 10 <span style="margin-left: 100px;">M factor (Chronic) = 10</span> This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES.
<b>Classification</b> Acute Tox. 4 - H302 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1B - H350i Repr. 1B - H360F Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

**Composition comments**      When handled correctly, undamaged units represent no danger.

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### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	When handled correctly, undamaged units represent no danger.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
<b>Skin Contact</b>	Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	May cause respiratory irritation.
<b>Ingestion</b>	May cause irritation.
<b>Skin contact</b>	Prolonged contact may cause burns.
<b>Eye contact</b>	May cause severe eye irritation.

#### Indication of immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

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

**Hazardous combustion products** Heating may generate the following products: Toxic and corrosive gases or vapors.

#### Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

### 6. Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

#### Environmental precautions

**Environmental precautions** Not considered to be a significant hazard due to the small quantities used. However, large or frequent spills may have hazardous effects on the environment.

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

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**Methods for cleaning up** Absorb in vermiculite, dry sand or earth and place into containers. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Good personal hygiene procedures should be implemented. When handled correctly, undamaged units represent no danger.

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

**Storage precautions** Keep separate from food, feedstuffs, fertilizers and other sensitive material. Store in tightly-closed, original container in a dry and cool place.

#### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

### 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

##### HYDROCHLORIC ACID 37%

Ceiling exposure limit: OSHA 5 ppm 7 mg/m<sup>3</sup>

Ceiling exposure limit: ACGIH 2 ppm 2.98 mg/m<sup>3</sup>

A4

##### COBALT DICHLORIDE

Long-term exposure limit (8-hour TWA): ACGIH 0,01 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

#### Exposure controls

##### Protective equipment



##### **Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

##### **Hand protection**

It is recommended that chemical-resistant, impervious gloves are worn. It is recommended that gloves are made of the following material: Nitrile rubber.

##### **Hygiene measures**

No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. Wash promptly if skin becomes contaminated.

##### **Respiratory protection**

Due to the physical nature of this product, exposure by this route is unlikely. No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

### 9. Physical and chemical properties

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### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Color</b>	Red.
<b>Other information</b>	No data available.

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	Stable under the prescribed storage conditions.
<b>Possibility of hazardous reactions</b>	No data available.
<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
<b>Hazardous decomposition products</b>	There are no anticipated hazardous decomposition products associated with this material.

### 11. Toxicological information

#### Information on toxicological effects

<b>Toxicological effects</b>	This product is toxic. Suspected of causing genetic defects. May cause cancer. May cause cancer by inhalation. May damage fertility or the unborn child if swallowed. May be harmful if swallowed.
<b>Other health effects</b>	May cause skin irritation. May cause an allergic skin reaction. May cause serious eye damage. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b><u>Acute toxicity - oral</u></b>	
<b>Summary</b>	May be harmful if swallowed. May damage fertility or the unborn child if swallowed.
<b>ATE oral (mg/kg)</b>	32,320.68
<b><u>Acute toxicity - dermal</u></b>	
<b>Summary</b>	May cause skin irritation. May cause an allergic skin reaction.
<b><u>Acute toxicity - inhalation</u></b>	
<b>Summary</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
<b><u>Skin corrosion/irritation</u></b>	
<b>Summary</b>	May cause skin irritation.
<b><u>Serious eye damage/irritation</u></b>	
<b>Summary</b>	May cause serious eye damage.
<b><u>Respiratory sensitization</u></b>	
<b>Summary</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b><u>Germ cell mutagenicity</u></b>	
<b>Summary</b>	Suspected of causing genetic defects.

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### Carcinogenicity

**Summary** Contains a substance/a group of substances which may cause cancer. May cause cancer by inhalation.

### Reproductive toxicity

**Summary** May damage fertility or the unborn child if swallowed.

**Inhalation** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause cancer by inhalation.

**Ingestion** May be harmful if swallowed. May damage fertility or the unborn child if swallowed.

**Skin Contact** May cause skin irritation. May cause an allergic skin reaction.

**Eye contact** May cause serious eye damage.

## 12. Ecological information

**Ecotoxicity** The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**Toxicity** The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

### Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

### Mobility in soil

**Mobility** The product is water-soluble and may spread in water systems.

### Other adverse effects

**Other adverse effects** None known.

## 13. Disposal considerations

### Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## 14. Transport information

**General** As supplied, this product is consigned under the Excepted Quantities provisions. When handled correctly, undamaged units represent no danger.

### UN Number

**UN No. (TDG)** 1789

**UN No. (IMDG)** 1789

**UN No. (ICAO)** 1789

**UN No. (DOT)** UN1789

### UN proper shipping name

**Proper shipping name (TDG)** HYDROCHLORIC ACID

## RED 2 SOLUTION

**Proper shipping name (IMDG)** HYDROCHLORIC ACID

**Proper shipping name (ICAO)** HYDROCHLORIC ACID

**Proper shipping name (DOT)** HYDROCHLORIC ACID

**Transport hazard class(es)**

**DOT hazard class** 8

**DOT hazard label** 8

**TDG class** 8

**TDG label(s)** 8

**IMDG Class** 8

**ICAO class/division** 8

**Transport labels**



**DOT transport labels**



**Packing group**

**TDG Packing Group** III

**IMDG packing group** III

**ICAO packing group** III

**DOT packing group** III

**Environmental hazards**

**Environmentally Hazardous Substance**



**Special precautions for user**

**IMDG Code segregation group** 1. Acids

**EmS** F-A, S-B

**DOT reportable quantity** RQ: Hydrogen chloride (174216.0279 lbs)

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**15. Regulatory information**

**Guidance** Material Safety Data Sheets for Substances and Preparations.

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### US Federal Regulations

#### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

None of the ingredients are listed.

#### **SARA 313 Emission Reporting**

None of the ingredients are listed.

#### **CAA Accidental Release Prevention**

None of the ingredients are listed.

### US State Regulations

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed.

#### **Massachusetts "Right To Know" List**

None of the ingredients are listed.

#### **Rhode Island "Right To Know" List**

None of the ingredients are listed.

#### **Minnesota "Right To Know" List**

None of the ingredients are listed.

#### **New Jersey "Right To Know" List**

None of the ingredients are listed.

#### **Pennsylvania "Right To Know" List**

None of the ingredients are listed.

### Inventories

#### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

#### **US - TSCA**

All the ingredients are listed or exempt.

#### **US - TSCA 12(b) Export Notification**

None of the ingredients are listed or exempt.

### **16. Other information**

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Issued by</b>	L. Morgan
<b>Revision date</b>	12/22/2020
<b>Revision</b>	15
<b>Supersedes date</b>	10/1/2020
<b>SDS status</b>	Approved.



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### Hazard statements in full

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
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.  
H350i May cause cancer by inhalation.  
H360F May damage fertility.  
H400 Very toxic to aquatic life.  
H401 Toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.