

# Palintest

Water Analysis Technologies

## SAFETY DATA SHEET RED 3 SOLUTION

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

#### 1.1. Product identifier

Product name	RED 3 SOLUTION
Product number	PT232, LR-9930, PT232/US, LR-9803, SPCL006
UFI	UFI: ECU0-80J2-P00J-G40V

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

Identified uses	Testing water
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#### 1.3. Details of the supplier of the safety data sheet

Supplier	PALINTEST LIMITED PALINTEST HOUSE TEAM VALLEY GATESHEAD TYNE & WEAR NE11 0NS ENGLAND TEL 0191 491 0808 FAX 0191 482 5372 palintest@palintest.com
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#### 1.4. Emergency telephone number

Emergency telephone	+44 (0)207 858 1228 (24hr)
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National emergency telephone number NHS Direct: 0845 4647 (England and Wales) NHS 24: 08454 24 24 24 (Scotland)

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

Physical hazards	Met. Corr. 1 - H290
Health hazards	Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1B - H350 Repr. 1B - H360F
Environmental hazards	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

#### 2.2. Label elements

##### Hazard pictograms



Signal word

Danger

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### Hazard statements

H290 May be corrosive to metals.  
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.  
H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.  
P234 Keep only in original packaging.  
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.

### Contains

COBALT DICHLORIDE

### Supplementary precautionary statements

P201 Obtain special instructions before use.  
P261 Avoid breathing vapour/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P284 [In case of inadequate ventilation] wear respiratory protection.  
P308+P313 IF exposed or concerned: Get medical advice/ attention.  
P321 Specific treatment (see medical advice on this label).  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P390 Absorb spillage to prevent material damage.  
P391 Collect spillage.  
P405 Store locked up.  
P406 Store in a corrosion-resistant container with a resistant inner liner.

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

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<b>COBALT DICHLORIDE</b>		<b>3-5%</b>
CAS number: 7646-79-9	EC number: 231-589-4	REACH registration number: 01-2119517584-37-XXXX
M factor (Acute) = 10	M factor (Chronic) = 10	
Substance of very high concern (SVHC). 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		

<b>HYDROCHLORIC ACID 37%</b>		<b>&lt;3.1%</b>
CAS number: 7647-01-0	EC number: 231-595-7	REACH registration number: 01-2119484862-27-XXXX
<b>Classification</b>		
Met. Corr. 1 - H290		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
STOT SE 3 - H335		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments**      This product contains a substance that is a SVHC. When handled correctly, undamaged units represent no danger.

### SECTION 4: First aid measures

#### 4.1. 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. Remove any contact lenses and open eyelids wide apart. 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.

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

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<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.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Use fire-extinguishing media suitable for the surrounding fire.
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### 5.2. Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	Heating may generate the following products: Toxic and corrosive gases or vapours.
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### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	No specific firefighting precautions known.
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## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	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.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	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.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Usage precautions</b>	Good personal hygiene procedures should be implemented. When handled correctly, undamaged units represent no danger.
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### 7.2. Conditions for safe storage, including any incompatibilities

<b>Storage precautions</b>	Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in tightly-closed, original container in a dry and cool place.
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### 7.3. Specific end use(s)

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
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### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### COBALT DICHLORIDE

Long-term exposure limit (8-hour TWA): WEL 0,1 mg/m<sup>3</sup>

Carc, Sen

as Co

##### HYDROCHLORIC ACID 37%

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2 mg/m<sup>3</sup> gas and aerosol mists

Short-term exposure limit (15-minute): WEL 5 ppm 8 mg/m<sup>3</sup> gas and aerosol mists

WEL = Workplace Exposure Limit.

Carc = Capable of causing cancer and/or heritable genetic damage.

Sen = Capable of causing occupational asthma.

##### Ingredient comments

OES = Occupational Exposure Standard. MEL = Maximum Exposure Limit. ACGIH = US Standard.

#### 8.2. 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.

### SECTION 9: Physical and chemical properties

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

Appearance Liquid.

Colour Red.

#### 9.2. Other information

Other information No data available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

#### 10.3. Possibility of hazardous reactions

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**Possibility of hazardous reactions** No data available.

### 10.4. Conditions to avoid

**Conditions to avoid** There are no known conditions that are likely to result in a hazardous situation.

### 10.5. Incompatible materials

**Materials to avoid** No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** There are no anticipated hazardous decomposition products associated with this material.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** This product is toxic. Suspected of causing genetic defects. May cause cancer. May cause cancer by inhalation. May damage fertility if swallowed. May damage the unborn child if swallowed.

**Other health effects** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause skin irritation. May cause serious eye damage. May cause respiratory irritation.

#### Acute toxicity - oral

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

**ATE oral (mg/kg)** 16,724.89

#### Acute toxicity - dermal

**Summary** May cause skin irritation. May cause an allergic skin reaction.

#### Acute toxicity - inhalation

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

#### Skin corrosion/irritation

**Summary** May cause skin irritation.

#### Serious eye damage/irritation

**Summary** May cause serious eye damage.

#### Respiratory sensitisation

**Summary** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Germ cell mutagenicity

**Summary** Suspected of causing genetic defects.

#### Carcinogenicity

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

#### Reproductive toxicity

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

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<b>Inhalation</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause cancer by inhalation.
<b>Ingestion</b>	May be harmful if swallowed. May damage fertility if swallowed. May damage the unborn child if swallowed.
<b>Skin contact</b>	May cause an allergic skin reaction. May cause skin irritation.
<b>Eye contact</b>	May cause serious eye damage.

### SECTION 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.

#### 12.1. Toxicity

**Toxicity** The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. Very toxic to aquatic organisms.

#### 12.2. Persistence and degradability

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

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

#### 12.4. Mobility in soil

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

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

**Other adverse effects** Not applicable.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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

### SECTION 14: Transport information

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

#### 14.1. UN number

<b>UN No. (ADR/RID)</b>	1789
<b>UN No. (IMDG)</b>	1789
<b>UN No. (ICAO)</b>	1789
<b>UN No. (ADN)</b>	1789

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** HYDROCHLORIC ACID

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Proper shipping name (IMDG) HYDROCHLORIC ACID

Proper shipping name (ICAO) HYDROCHLORIC ACID

Proper shipping name (ADN) HYDROCHLORIC ACID

### 14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C1

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

### Transport labels



### 14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

ADN packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

IMDG Code segregation group 1. Acids

EmS F-A, S-B

ADR transport category 3

Emergency Action Code 2R

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

## SECTION 15: Regulatory information

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



## RED 3 SOLUTION

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

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

### 15.2. Chemical safety assessment

No data available.

### SECTION 16: Other information

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

**Issued by** L. Morgan

**Revision date** 21/12/2020

**Revision** 14

**Supersedes date** 01/10/2020

**SDS status** Approved.

**Hazard statements in full** H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
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.  
H410 Very 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.