

## Legal Disclaimer

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

### 1.1 Product identifier.

Product name: Essentials Spa Non Chlorine Shock  
Product code: 20 86 556 010 – Essentials Spa Non Chlorine Shock 1kg

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

This product may be used as a biocidal active substance in accordance with Regulation (EU) 518/2012, if the appropriate local authorisations have been obtained.

Water treatment chemical.

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

Name of supplier: Golden Coast Ltd  
Address of supplier: Fishleigh Road, Roundswell Commercial Park West, Barnstaple, Devon. EX31 3UA  
Phone number: 01271 378 100  
Responsible person: Jamie Adams  
Email: [swimmer@goldenc.com](mailto:swimmer@goldenc.com)  
Web address: [www.goldenc.com](http://www.goldenc.com)

### 1.4 Emergency phone number: 01271 378 100 (office hours)

## 2. Section 2: Hazards identification.

### 2.1 Classification of the substance or mixture.

#### Classification according to Regulation (EC) No 1272/2008

#### Hazard Class

Skin Corrosion 1A	H314
Acute Tox 4	H302
Aquatic Chronic 3	H412

For the full text of the H statements mentioned in this section see Section 16.

#### Most important adverse effects

Human Health:	See section 11 for toxicological information
Physical & Chemical Hazards:	See section 9 for physicochemical information
Potential environmental effects:	See section 12 to environmental information

### 2.2 Label elements.

#### Labelling according to Regulation (EC) No 1272/2008

Hazard Symbols:



Signal word: Danger

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Hazard statement's:	H314	Causes severe skin burns and eye damage
	H302	Harmful if swallowed
	H412	Harmful to aquatic life with long lasting effects
<b>Additional Labelling:</b>	Contains:	Dipotassium peroxodisulphate
	EUH208:	May produce an allergic reaction
Precautionary statements:	P102:	Keep out of the reach of children
	P273:	Avoid release to the environment
	P280:	Wear protective gloves/protective clothing/eye protection/face protection
	P301+P361+P353:	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303+361+353:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water.
	P305+351+338:	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do so- continue rinsing.
	P310:	Immediately call a poison centre
	P405:	Store locked up
	P501:	Dispose of contents/container in accordance with local regulations. Use biocides safely. Always read the label and product information before use.

Special labelling: Contains: Dipotassium peroxodisulphate. May produce an allergic reaction.

## 2.3 Other hazards.

PBT and vPvB assessment: PBT: Not applicable vPvB: Not applicable

## 3. Section 3: Composition/information on ingredients.

### 3.1 Mixtures.

CAS-No	EINECS	%	Hazards
<b>Pentapotassium bis(peroxymonosulphate)bis(sulphate)</b>			
70693-62-8	274-778-7	>=86 - <=96%	Acute Tox. 4, H302: Skin Corr.1B; H314: Eye Dam.1; H318: Aquatic Chronic 3; H412
<b>Dipotassium peroxodisulphate</b>			
77727-21-1	231-781-8	>=0 - <=2%	Ox.Sol/3; H272 Acute Tox 4 H302; Skin Irrit 2; H315 Eye Irrit 2; H315: Resp.Sens1; H334: Skin Sens.1; H3017, STOT SE3; H335; Aquatic Chronic 2; H312
<b>Tetra[carbonato(2)]dihyroxypentamagnesium</b>			
-	-	>=1 - <=2%	

For the full text of the H statements mentioned in this section see Section 16

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## 4. Section 4: First aid measures.

### 4.1 Description of first aid measures.

General advice:	Never give anything by mouth to an unconscious person. Remove from exposure, lie down. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
If inhaled:	In case of accident by inhalation; remove the casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
In case of skin contact:	Immediately flush skin with large amounts of water. Remove contaminated Clothing and shoes. Wash contaminated clothing before re-use. Consult a physician.
In case of eye contact:	Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed:	Do NOT induce vomiting. If person vomits when lying on his back, place him in the recovery position. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

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

Symptoms: May provoke the following symptoms:	
Inhalation:	Nose bleed, irritation, cough, discomfort
Skin contact:	Severe irritation, Erythema, Burn, Rash, Discomfort
Eye contact:	Corrosion, Irritation, Discomfort, lachrymation, Blurred vision, Ulceration
Ingestion:	Inflammation of the stomach (gastritis)

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

Treatment:	Treat symptomatically
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## 5. Section 5: Firefighting measures.

### 5.1 Extinguishing media.

Suitable media:	Use extinguishing measures that are appropriate to local circumstances and the environment.
Unsuitable media:	Carbon dioxide (CO <sub>2</sub> ). High volume water jet.

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

Specific Hazards:	The product itself does not burn.
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### 5.3 Advice for firefighters.

Special equipment:	In the event of fire, wear self-contained breathing apparatus and protective suit.
Further information:	Cool containers/ tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

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## 6. Section 6: Accidental release measures.

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

Personal precautions: Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use personal protective equipment. Ensure adequate ventilation.

### 6.2 Environmental precautions.

Environmental precautions: Should not be released into the environment. Prevent material from entering sewers, waterways, or low area. Do not contaminate water.

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

Cleaning up: Sweep up and shovel into suitable containers for disposal. Avoid dust formation. After cleaning, flush away traces with water.

Further information: Dispose of in accordance with local regulations.

### 6.4 Reference to other sections.

See Section 8 for personal protective information

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## 7. Section 7: Handling and storage.

### 7.1 Precautions for safe handling.

Advice on safe handling: Use only in well-ventilated areas. Do not breathe dust. Avoid dust formation in confined areas. Avoid contact with skin and eyes. Keep away from heat and flame.

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

Storage: Keep in a dry, cool and well ventilated place. Protect from contamination.

Containers: Store only in original containers.

Common storage: Keep away from: Combustible material. Never allow product to get in contact with water during storage.

Other information: Stable under recommended storage conditions

### 7.3 Specific end use(s).

Specific use(s): No information available.

### Further information

Protect from humidity and water.

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## 8. Section 8: Exposure controls/personal protection.

### 8.1 Control parameters.

If sub-section is empty then no values are applicable

#### Pentapotassium bis(peroxymonosulphate)bis(sulphate)

Use	Exposure Route	Health Affect	Value
Workers	Skin contact	Acute – systematic effects	80 mg/kg body weight (bw) /day
Workers	Inhalation	Acute – systematic effects	50 mg/m3
Workers	Skin contact	Acute – local effects	0.449 mg/cm2
Workers	Inhalation	Acute – local effects	50 mg/m3
Workers	Skin contact	Long-term – systematic effects	0.28 mg/m3
Workers	Inhalation	Long-term – systematic effects	0.28 mg/m3
Consumers	Skin contact	Acute – systematic effects	80 mg/kg body weight (bw) /day
Consumers	Inhalation	Acute – systematic effects	25 mg/m3
Consumers	Ingestion	Acute – systematic effects	10mg/kg body weight (bw) /day
Consumers	Skin contact	Acute – local effects	0.224 mg/cm2
Consumers	Inhalation	Acute – local effects	25 mg/m3
Consumers	Skin contact	Long term - systematic effects	10 mg/kg body weight (bw) /day
Consumers	Inhalation	Long term – systematic effects	0.14 mg/m3
Consumers	Ingestion	Long term – systematic effects	10 mg/kg body weight (bw) /day
Consumers	Inhalation	Effect: Long-term – local effects	0.14 mg/m3

#### Predicted No Effect Concentration (PNEC)

#### Pentapotassium bis(peroxymonosulphate)bis(sulphate)

Compartment	Value	
Fresh water	0.022	Mg/l
Marine water	0.002	Mg/l
Intermittent use/release	0.0109	Mg/l
Fresh water sediment	0.017	Mg/l
Fresh water sediment	0.017	Mg/l
Marine sediment	0.00174	Mg/l
Soil	0.885	Mg/l
Sewage treatment plants	108	Mg/l

### 8.2 Exposure controls.

Engineering measures:

Ensure adequate ventilation, especially in confined area.

Eye protection:

Wear safety glasses or coverall chemical splash goggles.

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Hand protection:	Wear protective gloves Material: Butyl-rubber Break through time: >=8 h Glove thickness: 0.5mm
Skin and body protection:	Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots. Remove and wash contaminated clothing before re-use.
Protective measures:	When using do not eat or drink. Do not breathe dust.
Hygiene measures:	Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing. Handle In accordance with good industrial hygiene and safety practice.
Respiratory protection:	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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**9. Section 9: Physical and chemical properties.****9.1 Information on basic physical and chemical properties.**

Form:	Solid form, granular
Colour:	White
Odour:	None
pH @ 20°C	2.1 at 30 g/l (20°C)
Melting point:	Decomposes before melting
Boiling point:	Not applicable
Flash point:	Does not flash
Flammability (solid, gas)	Product is not flammable
Oxidizing properties:	The substance or mixture is not classified as oxidizing
Explosive properties:	Product does not present an explosion hazard
Vapour pressure:	< 0.0000017 hPa
Relative density:	2.35 at 20°C
Water solubility:	297 – 357 g/l at 22°C
Density @ 20°:	Not determined
Water solubility:	Soluble
Viscosity, dynamic	No data available

**9.2 Other Information**

No further information available

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## 10. Section 10: Stability and reactivity.

### 10.1 Reactivity.

Reactivity Stable under recommended storage conditions

### 10.2 Chemical stability.

Chemical stability Stable under normal conditions

### 10.3 Possibility of hazardous reactions.

Possibility of haz. reactions No information available

### 10.4 Conditions to avoid.

Conditions to avoid Temperature : > 50°C Avoid extreme heat

### 10.5 Incompatible materials.

Incompatible materials Halogenated compounds Cyanides Heavy metal salts

### 10.6 Hazardous decomposition products.

Haz. Decomp. products No data available

## 11. Section 11: Toxicological information.

### 11.1 Information on toxicological effects.

#### Acute oral toxicity

Acute toxicity estimate: 506.88 mg/kg Method: Calculation method

#### *Pentapotassium bis(peroxymonosulphate) bis(sulphate)*

LD50 Rat 500 mg/kg Method: OECD Test Guideline 423

#### *Dipotassium peroxodisulphate*

LD50 Rat 1,130 mg/kg OECD Test Guideline 401

#### *Tetra[carbonato(2-)]dihydroxypentamagnesium*

LD50 Rat > 2,000 mg/kg Fixed Dose Method

Information given is based on data obtained from similar substances

#### Acute inhalation toxicity

LC50 4 h Rat > 5 mg/l

#### *Pentapotassium bis(peroxymonosulphate) bis (sulphate)*

LC50: 4 h Rat >5 mg/l Method: OECD Test Guideline 403

#### *Dipotassium peroxodisulphate*

LC50: 4 h Rat >5 mg/l Respiratory tract irritation Dust

#### Acute dermal toxicity

#### *Pentapotassium bis(peroxymonosulphate) bis(sulphate)*

LD50: Rat >2,000 mg/kg Method: Directive 67/548/EEC, Annex V, B.3.

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### **Dipotassium peroxodisulphate**

LD50: Rabbit >10,000 mg/kg

#### Skin irritation

Rabbit Result: Causes burns

	Classification	Result	Method
<b>Pentapotassium bis(peroxymonosulphate) bis(sulphate)</b>			
Rabbit	Corrosive	Causes burns	OECD Test Guideline 404
<b>Dipotassium peroxodisulphate</b>			
Rabbit	Irritating to skin	Skin irritation	OECD Test Guideline 404
<b>Tetra[carbonato(2-)]dihydroxypentamagnesium (RhE)*</b>			
	Not classified as irritant	No skin irritant	OECD Test Guideline 431

*Information given is based on data obtained from similar substances*

*\*reconstructed human epidermis*

#### Eye irritation

Rabbit Result: Severe eye irritation

### **Pentapotassium bis(peroxymonosulphate) bis(sulphate)**

Rabbit Causes severe burns Corrosive OECD Test Guideline 404

### **Tetra[carbonato(2-)]dihydroxypentamagnesium**

Rabbit Not classified as irritant No eye irritation OECD Test Guideline 405

*Information given is based on data obtained from similar substance*

#### Sensitisation

##### Guinea Pig

Result: Did not cause sensitisation on laboratory animals

Classification: Not a sensitizer by inhalation

### **Pentapotassium bis(peroxymonosulphate) bis(sulphate)**

##### Guinea Pig

Classification: Does not cause skin sensitisation

Result: Does not cause skin sensitisation

##### Human

Classification: Does not cause skin sensitisation

Result: Does not cause respiratory sensitisation

### **Dipotassium peroxodisulphate**

##### Human

Classification: May cause sensitisation by inhalation

Result: May cause sensitisation by inhalation



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Mouse Local lymph node test

Classification: May cause sensitisation by skin contact

Result: May cause sensitisation by skin contact

Method: OECD Test Guideline 429

Repeated dose toxicity

LC50 4 h Rat >5 mg/l

***Dipotassium peroxodisulphate***

Oral Rat

NOAEL: 131.5 mg/kg

Method: OECD Test Guideline 407

No toxicologically significant effects were found

***Tetra[carbonato(2-)]dihydroxypentamagnesium***

Oral Rat

Exposure time: 90d

NOAEL: 1,531 mg/kg

Method: OECD Test Guideline 408

No toxicologically significant effects were found

*Information given is based on data obtained from similar substances*

Mutagenicity assessment

***Pentpotassium bid(peroxymonosulphate) bis(sulphate)***

Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Tests on mammalian cell cultures showed mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.

***Dipotassium peroxodisulphate***

Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Tests on mammalian cell cultures showed mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.

***Tetra[carbonato(2-)]dihydroxypentamagnesium***

Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals. Information given is based on data obtained from similar substance.

Carcinogenicity assessment

***Dipotassium peroxodisulphate***

Not classifiable as a human carcinogen. Animal testing showed no reproductive toxicity. Information given is based on data obtained from similar substances

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### ***Tetra[carbonato(2-)dihydroxypentamagnesium***

Not classifiable as a human carcinogen. Information given is based on data obtained from similar substances. Animal testing did not show any carcinogenic effects.

Toxicity to reproduction assessment

### ***Dipotassium peroxodisulphate***

No toxicity to reproduction. Animal testing showed no reproductive toxicity. Information given is based on data obtained from similar substances

### ***Tetra[carbonato(2-)dihydroxypentamagnesium***

No toxicity to reproduction. Information given is based on data obtained from similar substances. Animal testing showed no reproductive toxicity.

Assesment teratogenicity

### ***Pentapotassium bis(peroxymonosulphate) bis(sulphate)***

Animal testing showed no developmental toxicity

### ***Dipotassium peroxodisulphate***

Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.

### ***Tetra[carbonato(2-)dihydroxypentamagnesium***

Information given is based on data obtained from similar substances. Animal testing showed no developmental toxicity.

Human experience

Excessive exposures may affect human health, as follows:

Inhalation:	Discomfort, Cough, Nose bleeding
Skin contact:	Irritation, Burn, Erythema
Eye contact:	Corrosion
Ingestion:	Stomach: Gastrointestinal disturbance, Inflammation

## 12. Section 12: Ecological information.

### 12.1 Toxicity.

Toxicity to fish

#### **Pentapotassium bis(peroxymonosulphate) bis(sulphate)**

LC50/96h Cyprinodon variegatus (sheepshead minnow): 1.09 mg/l

Method: Directive 67/548/EEC, Annex V, C.1

#### **Dipotassium peroxodisulphate**

LC50/96h Oncorhynchus mykiss (rainbow trout): 76.3 mg/l

Method: US EPA Test Guideline OPP 72-1

Information given is based on data obtained from similar substances

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**Tetra[carbonato(2-)]dihydroxypentamagnesium**

LC50/96h Pimephales promelas (fathead minnow): 2,120 mg/l

Information given is based on data obtained from similar substances.

Toxicity to aquatic plants

**Pentapotassium bis(peroxymonosulphate) bis(sulphate)**

ErC50/96h Selenastrum capricornutum (green algae): &gt;1 mg/l

Method: OECD Test Guideline 201

NOEC/72h Selenastrum capricornutum (green algae) 0.5 mg/l

**Dipotassium peroxodisulphate**

NOEC/72h Pseudokirchneriella subcapitata (green algae) 39.2 mg/l

Method: OECD Test Guideline 201

Information given is based on data obtained from similar substances

**Tetra[carbonato(2-)]dihydroxypentamagnesium**

EC50/72h Desmodesmus subspicatus (green algae) &gt;100 mg/l

Method: OECD Test Guideline 201

Information given is based on data obtained from similar substances

NOEC/72h Desmodesmus subspicatus (green algae) &gt;100 mg/l

Method: OECD Test Guideline 201

Information given is based on data obtained from similar substances

Toxicity to aquatic invertebrates

**Pentapotassium bis(peroxymonosulphate) bis(sulphate)**

EC50/48h Daphnia Magna (Water flea): 3.5 mg/l

Method: OECD Test Guideline 202

**Dipotassium peroxodisulphate**

EC50/48h Daphnia Magna (Water flea) 120 mg/l

Method: US EPA Test Guideline OPP 72-2

Information given is based on data obtained from similar substances.

**Tetra[carbonato(2-)]dihydroxypentamagnesium**

EC50/48h Daphnia Magna (water flea) 140 mg/l

Information given is based on data obtained from similar substances.

Chronic toxicity to fish

**Pentapotassium bis(peroxymonosulphate) bis(sulphate)**

NOEC/37d Cyprinodon variegatus (sheepshead minnow): 0.22 mg/l

Chronic toxicity to aquatic Invertebrates

**Pentapotassium bis(peroxymonosulphate) bis(sulphate)**

NOEC/28d Americamysis bahia (mysid shrimp) 0.267 mg/l

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**12.2 Persistence and degradability.**

Biodegradability:

Pentapotassium bis(peroxymonosulphate) bis(sulphate)  
BiodegradabilityDipotassium peroxodisulphate  
Readily biodegradable

Tetra[carbonato(2-)]dihydroxypentamagnesium

The methods for determining biodegradability are not applicable to inorganic substances.

Physico-chemical removability

Hydrolyses

**12.3 Bioaccumulation potential.**

Bioaccumulative potential:

No data available

**12.4 Mobility in soil.**

Mobility in soil:

No data available

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

PBT and PvB

Contains no substance considered to be persistent, bioaccumulating and toxic (PBT)

Contains no substance considered to be very persistent and very bioaccumulating (vPvB)

**12.6 Other adverse effects.**

Other adverse effects

No data available

**13. Section 13: Disposal considerations.****13.1 Waste treatment methods.**

Product:

Dispose of as hazardous waste in compliance with local and national regulations

Contaminating packaging:

If recycling is not practicable, dispose of in compliance with local regulations.

**Classification**

Waste Codes in accordance with the European Waste Catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with you waste disposal partner or the responsible authority.

**14. Section 14: Transport information.****ADR****14.1 UN number.**

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**14.2 UN proper shipping name.**

CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Monopersulfate Compound)

**14.3 Transport hazard class(es).**

8

**14.4 Packing group.**

II

**14.5 Environmental hazards.**

For further information see section 12

**14.6 Special precautions for user.**

Tunnel restriction code: (E)

**IATA\_C/IMDG****14.1 UN number.**

3260

**14.2 UN proper shipping name.**

CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Monopersulfate Compound)

**14.3 Transport hazard class(es).**

8

**14.4 Packing group.**

II

**14.5 Environmental hazards.**

For further information see section 12

**14.6 Special precautions for user.**

No data available

**14.7 Transport in bulk according to annex II of MARPOL 73/78 and the IBC code.****15. Section 15: Regulatory information.****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.**

Other regulations: Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**15.2 Chemical safety assessment.**

A Chemical Safety Assessment has been carried out for the substance

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**16. Section 16: Other information.**

Full text of H-statements referred to under sections 2 and 3

H272: May intensify fire; oxidizer

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

Restricted to professional users. Attention – Avoid exposure – obtain special instructions before use

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

**Note:**

This data sheet does not constitute a user's assessment of workplace risk as required by HSW act, COSHH, management of health and safety at work regulations, or other health and safety legislation.

Further information relating to the pictograms, phrases, statements or acronyms contained within this Safety Data Sheet is available for download. Please refer to [www.goldenc.com/resources/data-sheets](http://www.goldenc.com/resources/data-sheets)