AquaSPArkle O2 Gentle Granules

1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier AquaSPArkle O2 Gentle Granules

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Uses: Disinfectants and algaecides not intended for direct application to humans or animals.

1.3 Details of the supplier of the safety data sheet

Company: Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire
GL52 7RS

Telephone: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083
E-mail: sales@cpc-chemicals.co.uk

1.4 **Emergency Telephone**

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 3712 229084 (outside of office hours)

2. Hazard 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
Eye Dam. 1	H318
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 toxilogical information
Physical & Chemical Hazards:	See section 9 for physicochemical information
Potential environmental effects:	See section 12 for environmental information

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:

Signal word: Danger

Hazard statements:	H302	Harmful if swallowed.
	H314	Causes severe skin burns and eye damage
	H412	Harmful to aquatic life with long lasting effects
Additional Labelling:	Contains:	Dipotassium peroxodisulphate
	EUH208:	May produce an allergic reaction
Precautionary statements:	P102	Keep out of 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

2. Hazard Identification

P305+351+338:	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – 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. Composition/information on ingredients

3.1 Mixture

CAS-No.	EINECS	%	Hazards
pentapotassium bis(peroxymonosulphate)bis(sulphate)			01-2119485567 - **
70693-62-8	274-778-7	>=90-<=100%	Acute Tox. 4, H302 : Skin Corr. 1B; H314 : Eye Dam.1; H318: Aquatic Chronic 3; H412
potassium hydrogensulphate			016-056-00-**
7646-93-7	231-594-1	>= 3 - < 5	Skin Corr. 1B; H314; Eye Dam. 1; H318: STOT SE 3; H335; Respiratory system
Dipotassium peroxodisulphate			
77727-21-1	231-781-8	>= 1 - < 10	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 3; H412
dipotassium disulphate			
7790-62-7	232-216-8	>= 1 - < 3	Acute Tox. 3; H331: Skin Corr. 1A; H314: Eye Dam. 1; H318

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

4. First Aid measures

4.1 Description of first aid measures

General Advice:	Take affected persons out of danger area and lay down. Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
If Inhaled:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact:	Immediate medical treatment is necessary as untreated wounds from skin corrosion heal slowly and with difficulty. If on skin, rinse well with water. If on clothes, remove clothes.
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 a 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 unconcious person. Call a physician

4.2 Most important symptoms and effects, both acute and delayed

Symptoms & effects: No further relevant information known

4.3 Indication of immediate medical attention and special treatment needed

Treatment Treat symptomatically

5. Fire fighting measures

5.1 Extinguishing media:

Suitable media: Use extinguishing measures that are appropriate to local circumstances and environment.

Unsuitable media: Carbon dioxide (CO_2). High volume water jet.

5.2 Special hazards arising from the substance or mixture

Specific Hazards : The product itself does not burn.

5.3 Advice for fire-fighters

Special equipment: In the event of fire, wear self-contained breathing apparatusand protective suit

Further Information: Cool containers / tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses..

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 areas. Do not contaminate water.

6.3 Methods and materials for containment and cleaning up

Cleaning up: Use neutralising agent. 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

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 uses

Specific use(s) No information available

Further Information Protect from humidity and water

8. Exposure control/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 Effect	Value:
Workers	Skin contact	Acute - systemic effects	80 mg/kg body weight (bw) /day
Workers	Inhalation	Acute - systemic 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 - systemic effects	0.28 mg/m3
Workers	Inhalation	Long-term - systemic effects	0.28 mg/m3
Consumers	Skin contact	Acute - systemic effects	80 mg/kg body weight (bw) /day
Consumers	Inhalation	Acute - systemic effects	25 mg/m3
Consumers	ingestion	Acute - systemic effects	10 mg/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 - systemic effects	10 mg/kg body weight (bw) /day
Consumers	Inhalation	Long-term - systemic effects	0.14 mg/m3
Consumers	ingestion	Long-term - systemic 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 areas
Eye protection	Wear safety glasses or coverall chemical splash goggles
Hand protection	Wear protective gloves. Material: butyl-rubber Break through time: >= 8 h Glove thickness: 0.5 mm
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

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	< 0.0000013 hPa
Relative density	2.35 at 20 °C
Water solubility	297 - 357 g/l at 22 °C
Density:	2,35 g/cm³ (20 °C)
Bulk Density:	1.100 - 1.400 kg/m³
Viscosity, dynamic	No data available
Other Information	No further information available

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. Toxicilogical Information

11.1 Information on toxicilogical 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.

11. Toxicilogical Information

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.

Dipotassium peroxodisulphate

LD50 :	Rabbit	>10,000	mg/kg

Skin irritation

Rabbit	Result: Causes burns

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

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.

Mouse Local lymph node test

Classification:	May cause sensitisation by skin contact
Result:	May cause sensitisation by skin contact
Method:	OECD Test Guideline 429

11. Toxicilogical Information

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

Pentapotassium bis(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 substances.

Carcinogenicity assessment

Dipotassium peroxodisulphate

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

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.

Assessment 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.

11. Toxicilogical Information

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. Ecological Information

12.1 Toxicity

Toxicity to fish

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

LC50 / 96 h	Cyprinodon variegatus (sheepshead minnow):	1.09 mg/l
Method:	Directive 67/548/EEC, Annex V, C.1.	

Dipotassium peroxodisulphate

LC50 / 96 h	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.

Tetra[carbonato(2-)]dihydroxypentamagnesium

LC50 / 96 h	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 / 96 h /	Selenastrum capricornutum (green algae):	> 1 mg/l
Method:	OECD Test Guideline 201	
NOEC / 72 h	Selenastrum capricornutum (green algae):	0.5 mg/l

Dipotassium peroxodisulphate

NOEC / 72 h	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 / 72 h	Desmodesmus subspicatus (green algae):	> 100 mg/l
Method:	OECD Test Guideline 201	

Information given is based on data obtained from similar substances.

NOEC / 72 h	Desmodesmus subspicatus (green algae):	> 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 / 48 h	Daphnia magna (Water flea):	3.5 mg/l
Method:	OECD Test Guideline 202	

Dipotassium peroxodisulphate

EC50 / 48 h	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 / 48 h	Daphnia magna (Water flea):	140 mg/l

Information given is based on data obtained from similar substances.

12. Ecological Information

Chronic toxicity to fish
Pentapotassium bis(peroxymonosulphate) bis(sulphate)
NOEC / 37 d Cyprinodon variegatus (sheepshead minnow): 0.222 mg/l

Chronic toxicity to aquatic Invertebrates
Pentapotassium bis(peroxymonosulphate) bis(sulphate)
NOEC / 28 d Americamysis bahia (mysid shrimp): 0.267 mg/l

12.2 Persistence and degradability

Biodegradability Pentapotassium bis(peroxymonosulphate) bis(sulphate)
Biodegradable

Dipotassium peroxodisulphate
Readily biodegradable

Tetra[carbonato(2-)]dihydroxypentamagnesium
The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumlative potential

Partition coefficient: n-octanol/water: log Pow: < 0,3
Method: OECD Test Guideline 117

12.4 Mobility in soil

Mobility in soil: No data available

12.5 PBT and PvB 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. Disposal Considerations

13.1 Waste treatment methods

Product: Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated 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 your waste disposal partner or the responsible authority

14. Transport Information

14.1 UN Number 3260

14.2 UN proper shipping name 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (pentapotassium bis(peroxymonosulphate)bis(sulphate))

14.3 Transport hazard class(es) 8

14. Transport Information

14.4	**Packaging Group**	II	
	Classification Code	C2	
	Hazard Identification Number	80	
	Labels	8	
	Packing Instruction (cargo aircraft)	863:	50,00 kg
	Packing Instruction (passenger aircraft)	859	15,00 kg

14.5 Environmental hazards

Environmentally hazardous	No
Marine pollutant	No

14.6 Special precautions for user

Danger code (Kemler):	80
EMS Number:	F-A,S-B
• Segregation groups	Acids
• Stowage Category	B

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

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for this 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.
Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning juveniles must be observed.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

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.

▌Indicates updated section

SAFETY DATA SHEET
Version 1

AquaSPArkle O2 Gentle Liquid

1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier AquaSPArkle O2 Gentle Liquid

1.2 Relevant Identified uses of the substance or mixture and uses advised against
Uses: For disinfection of pool and spa water

1.3 Details of the supplier of the safety data sheet
Company: Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire
GL52 7RS

Telephone: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083
E-mail: sales@cpc-chemicals.co.uk

1.4 Emergency Telephone
Tel: +44 (0) 8712 229081 (office hours) +44 (0) 3712 229084 (outside of office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Category
Acute Environ	H400

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 toxilogical information
Physical & Chemical Hazards:	See section 9 for physicochemical information
Potential environmental effects:	See section 12 for environmental information

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008

Hazard symbols: 

Hazard statements: H400 Very toxic to aquatic life

Precautionary statements:

P402+404:	Store in a dry place. Store in a closed container
P305+351+338:	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P301+P314	IF SWALLOWED: Get medical attention if you feel unwell
P501	Dispose

Hazardous components which must be listed on the label
N-dimethyl-2-hydroxyammonium chloride (polymer)

2.3 Other Hazards No other information is available

3. Composition/information on ingredients

3.1 Substances
N, N-dimethyl-2-hydroxayammonium chloride (polymer)

EC No.	CAS No	CLP
687-444-4	25988-97-0	Acute Environ - H400

4. First Aid measures

4.1 Description of first aid measures

General Advice:	Symptoms of poisoning may occur even after several hours; therefore medical observation is required for at least 48 hours after the accident.
If Inhaled:	Provide fresh air, warmth and rest, preferably in a comfortable sitting position. Get professional medical attention if any discomfort continues.
In case of skin contact:	Generally the product does not irritate the skin.
In case of eye contact:	Rinse the eye immediately with water. Continue to rinse for at least 15 minutes.
If swallowed:	Clean mouth with water and drink plenty of water. If swallowed , do not induce vomiting - seek medical advice if discomfort continues

4.2 Most important symptoms and effects, both acute and delayed

Symptoms & effects: No further information available

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically

5. Fire fighting measures

5.1 Extinguishing media:

Suitable media: CO_2, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture

Specific Hazards : No information available

5.3 Advice for fire-fighters

Protective equipment: In the event of fire, wear self-contained breathing apparatus.
Wear appropriate body protection (full protective suit).

Further Information: Collect contaminated firefighting water separately
Contaminated firefighting water must not enter the sewage system.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Use personal protective equipment. Keep people away from and upwind of spill. Provide adequate ventilation. Avoid contact with skin and eyes. Keep away from ignition source.

6.2 Environmental precautions

Environmental precautions: Do not flush. Do not allow to enter into surface water or sanitary sewer system.
Prevent from spreading (e.g. by damning-in or oil barriers).

6.3 Methods and materials for containment and cleaning up

Cleaning up: Absorb with liquid binding material (sand, acid binders, universal binders, sawdust).

Further Information: Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment
See Section 13 for disposal information

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:	Use personal protective equipment. Avoid contact with skin and eyes. DO NOT MIX with other products in their concentrated form.
Hygiene measures:	Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the work day. Take off all contaminated clothing immediately. Provide adequate ventilation. Avoid contact with the skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities.

Storage Areas	No special measures required
Fire and explosion:	No special measures required
Further information:	Store in cool, dry conditions in well sealed receptacles
Common storage:	Store away from flammable substances. Store away from reducing agents. Do not store together with acids.
Storage Temperature:	Keep away from heat and direct sunlight

7.3 Specific end uses

Specific use(s): For disinfection of pool and spa water

8. Exposure control/personal protection

8.1 Control parameters

No exposure limit established

8.2 Exposure controls

Engineering measures Refer to protective measures listed in sections 7 and 8

Personal protective equipment

Respiratory protection	Not required		
Hand protection	Gloves	Material of gloves	Natural Rubber
Eye protection	Tightly sealed goggles. Emergency eye wash stations must be available.		
Skin and body protection	Protective work clothing		

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer systems

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Fluid
Colour:	Blue
Odour:	Mild
Boiling point:	100°C
Flash point:	Not applicable
Vapour pressure:	23 hPa
Density @ 20°C:	1.0425 g/cm³
Water solubility:	Fully miscible
Thermal decomposition:	180°C
Explosive properties:	Product does not present an explosion hazard
Oxidising properties:	Oxidising

9.2 Other Information No further information available

10. Stability and reactivity

10.1 Reactivity
Reactivity: No information available

10.2 Chemical stability
Chemical stability: No information available

10.3 Possibility of hazardous reactions
Hazardous reactions: None known

10.4 Conditions to avoid
Conditions to avoid: No decomposition if used accoriding to specifications

10.5 Incompatible materials
Materials to avoid: Oxidising agents

10.6 Hazardous decomposition products
Decomposition products: None known

11. Toxilogical Information

11.1 Information on toxilogical effects

Acute toxicity: Product is not toxic

Primary Irritant effect:
On the skin: No irritant effect
On the eyes: No irritant effect

Sensitization: No sensitizing effects known

Carcinogenic: There is no evidence that this substance has any carcinogenic properties.
Mutagenic: There is no evidence that this substance is mutagenic

Additional toxicological information:
Other relevant toxicity: Avoid repeated exposure

12. Ecological Information

12.1 Toxicity Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water.

12.2 Persistence and degradability
Persistence: No data available
Biogradability: No data available

12.3 Bioaccumlative potential
Bioaccumlative potential: Bioaccumulation is not expected

12.4 Mobility in soil
Mobility in soil: Expected to absorb on soil

12.5 Results of PBT and PvB assessment
PBT and PvB: No data available

12.6 Other adverse effects
Remarks: Danger to drinking water if even small quantities leak into the ground.
Do not allow product to reach ground water, water bodies or sewage system even in small quantities.

13. Disposal Considerations

13.1 Waste treatment methods

-Disposal should be in accordance with local, state or national legislation
-Do not reuse empty containers without commercial cleaning or reconditioning
-Do not discharge into drains or the environment ,dispose to an authorised waste collection point

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 your waste disposal partner or the responsible authority

14. Transport Information

14.1 UN Number 3082

14.2 UN proper shipping name 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N,N-dimethyl-2-hydroxyammonium chloride (polymer))

14.3 Transport hazard class(es)

Class	90
Classification	M6
Hazard label	9
Transport Category	3
LQ	

14.4 Packaging Group III

14.5 Environmental hazards

Classified as environmentally hazardous: Yes

14.6 Special precautions for user

Note: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG: Not applicable

15. Regulatory information

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

15.2 Chemical Safety Assessment

No information available

16. Other information

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

H400 Very toxic to aquatic life

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.

▌Indicates updated section.

SAFETY DATA SHEET

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name:	**pH Plus**
Datasheet Number:	pH Plus 4. 0. 0
Chemical Name:	Sodium carbonate

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

Pool / spa treatment

1.3 Details of the supplier of the safety data sheet

Name of Supplier:	Complete Pool Controls Ltd
Address of Supplier:	Unit 2, The Park Stoke Orchard Bishops Cleeve Gloucestershire GL52 7RS UK
Telephone:	+44 (0) 8712 229081
Fax:	+44 (0) 8712 229083
Responsible Person:	Sales Dpt
Email:	sales@cpc-chemicals.co.uk

1.4 Emergency telephone number

+44 (0) 8712 229081 (09:00 - 17:00)
+44 (0) 1242 300271

2 Hazards identification

2 .1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Eye Irrit. 2, H319
- Classification (67/548/EEC, 1999/45/EC)
- Xi; R36
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

2 .2 Label elements

- Signal Word: Warning
- Symbols: GHS07

Hazard phrases

- Causes serious eye irritation.

Precautionary Phrases

- Keep out of reach of children.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2 Hazards identification (....)

- Get medical advice/attention.

2 .3 Other hazards

- No information available.

3 Composition/information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
sodium carbonate		497-19-8	207-838-8	H319, R36	GHS07, Xi

*See Section 16

4 First aid measures

4 .1 Description of first aid measures

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- IF exposed or concerned: Get medical advice/attention.
- If medical advice is needed, have product container or label at hand.

4 .2 Most important symptoms and effects, both acute and delayed

- Causes irritation

4 .3 Indication of immediate medical attention and special treatment needed

- Treat symptomatically

5 Fire-fighting measures

5 .1 Extinguishing media

- In case of fire: use water, carbon dioxide or dry agent for extinction

5 .2 Special hazards arising from the substance or mixture

- No information available

5 .3 Advice for firefighters

- Wear protective clothing as per section 8
- Wear self-contained breathing apparatus (SCBA).

6 Accidental release measures

6 .1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Avoid raising dust
- Avoid contact with skin and eyes
- Eyewash bottles should be available

6 Accidental release measures (....)

6 .2 Environmental Precautions

- Do not allow to enter public sewers and watercourses

6 .3 Methods and material for containment and cleaning up

- Collect spillage.
- Sweep or shovel-up spillage and remove to a safe place
- Place in appropriate container
- Remove contaminated material to safe location for subsequent disposal

6 .4 Reference to other sections

- See Section 7 & 8

7 Handling and storage

7 .1 Precautions for safe handling

- Avoid contact with skin and eyes.
- Prevent formation of dust
- Do not eat, drink or smoke when using this product.
- Wash thoroughly after handling.
- Eyewash bottles should be available

7 .2 Conditions for safe storage, including any incompatibilities

- Keep away from foodstuff.
- Keep in a cool, dry, well ventilated place
- Keep only in original container.
- Keep container tightly closed.

7 .3 Specific end use(s)

- pH regulation

8 Exposure controls/personal protection

8 .1 Control parameters

- None assigned

8 .2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations as low as practicable

Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear safety glasses approved to standard EN 166.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear apron or other light protective clothing


Respirator


Goggles


Gloves


Suit

9 Physical and chemical properties

9 .1 Information on basic physical and chemical properties

- Odour: None
- Appearance: white, crystals
- pH 11.5
- Boiling point >999 °C
- Vapour pressure - not known
- Vapour density 2.533 g/cm3
- Melting point 854 °C
- Water solubility 212 g/l
- Specific gravity - not known
- Flash point - not applicable
- Non-explosive
- Partition coefficient : n-Octanol/water - not known
- Evaporation rate - not known
- Viscosity - not applicable

9 .2 Other information

- No information available

10 Stability and reactivity

10 .1 Reactivity

- No information available

10 .2 Chemical stability

- No decomposition if stored normally.

10 .3 Possibility of hazardous reactions

- No information available

10 .4 Conditions to avoid

- Avoid formation of dust
- Keep away from heat and moisture

10 .5 Incompatible materials

- Incompatible with acid

10 .6 Hazardous Decomposition Products

- Stable under normal conditions

11 Toxicological information

11 .1 Information on toxicological effects

- LD50 (oral,rat) 4090 mg/kg

Inhalation

- May cause respiratory tract irritation.
- May cause coughing

Contact with skin

- May cause redness and irritation

Contact with eyes

- Causes severe irritation
- Causes pain

11 Toxicological information (....)

- Causes redness

Ingestion

- The ingestion of significant quantities may cause nausea/vomiting

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No information available

Mutagenicity

- No information available

12 Ecological information

12 .1 Toxicity

- LC50 (fish) 1000 mg/l (96 hr)

12 .2 Persistence and degradability

- No information available

12 .3 Bioaccumulation Potential

- No information available

12 .4 Mobility in soil

- No information available

12 .5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12 .6 Other Adverse Effects

- No information available

13 Disposal considerations

13 .1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not reuse empty containers without commercial cleaning or reconditioning
- Do not discharge into drains or the environment, dispose to an authorised waste collection point

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 your waste disposal partner or the responsible authority.

14 Transport information

Corrosive

14.1 UN Number

14.2 UN Proper Shipping Name
N/A

14.3 Transport hazard class(es)

14.4 Packing group

14 .5 Environmental hazards

- Clean up even minor leaks or spills if possible without unnecessary risk

14 .6 Special precautions for user

- See Section 7

14 .7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	N/A	ADR UN No.:
ADR Hazard Class:		ADR Packing Group:
Tunnel Code:		

Sea (IMDG)

Proper Shipping Name:	N/A	IMDG UN No.:
IMDG Hazard Class.:		IMDG Pack Group.:

Air (ICAO/IATA)

Proper Shipping Name:	N/A	ICAO Un No.:
ICAO Hazard Class.:		ICAO Packing Group.:

15 Regulatory information

15 .1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

15 .2 Chemical Safety Assessment

No information available

16 Other information

Revisions

1. 03/01/2008 Created by Linda Brueford.
2. 30/11/2010 by Linda Brueford.GHS label elements added and other minor editorial amendments.

16 Other information (....)

3. 09/11/2011 by Linda Brueford. Updated to European regulations
4. September 2013 by ChemRegs. Minor amendments.

Text of R and S phrase codes used in this safety data sheet:- H319: Causes serious eye irritation.; R36: Irritating to eyes.

The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.

Spa Fusion

Revision 03/12/15

SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier Spa Fusion

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Uses: Disinfectant and Clarifier

1.3 Details of the supplier of the safety data sheet

Company: Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire
GL52 7RS

Telephone: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083
E-mail: sales@cpc-chemicals.co.uk

1.4 **Emergency Telephone**

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 1242 300271 (outside of office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Category	Target Organs	Hazard Statements
Skin Corrosion	Category 1A		H314
Aquatic Chronic	1		H410
STOT	3		H335

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 toxicological information.
Potential environmental effects: See section 12 for toxicological information.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:

Signal word: Danger

H272: May Intensify fire; oxidiser
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H410: Very toxic to aquatic life with long lasting effects
H302 + EUH031 Harmful if swallowed; Contact with acids liberates toxic gases
H335: May cause respiratory irritation

Warning! Do not use together with other products. May release dangerous gases (chlorine).

P221: Take any precaution to avoid mixing with combustibles
P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking
P285: In case of inadequate ventilate wear respiratory protection
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P405 Store locked up.

Hazardous components which must be listed on the label

sodium dichloroisocyanurate Dihydrate and disodium peroxide sulphate

Trade Name: **Spa Fusion**

3. Composition/information on ingredients

3.1 Mixture Mixture of substances listed below with non hazardous additions

Chemical Name	Cas No	EC No.	%	R/H Phrases
sodium dichloroisocyanurate Dihydrate, Index No: 613-030-01-7	51580-86-0	220-767-7	25-50%	H400: H410: H302: H319 : H335
disodium peroxide sulphate	7775-27-1	231-890-1	2.5-10%	H272:H334:H302H315: H319:H317:H335

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First Aid measures

4.1 Description of first aid measures

General Advice: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident

If inhaled: : Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation

In case of skin contact: Call a doctor immediately. Immediately wash with water and soap and rinse thoroughly

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately.

If swallowed: Rinse out mouth and then drink plenty of water. Call for a doctor immediately.

DO not give anything by mouth to an unconscious person. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed No relevant information

4.3 Indication of immediate medical attention and special treatment needed

Treatment Treat Symptomatically.

5. Fire fighting measures

5.1 Extinguishing media:

Suitable media: Water, Water Spray, carbon dioxide

Unsuitable media: Extinguishing powder, Foam, Water with full jet

5.2 Special hazards arising from the substance or mixture

Specific Hazards: Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Nitrogen oxides (NOx); Hydrogen chloride (HCl; Chlorine; Nitrogen trichloride

5.3 Advice for fire-fighters

Protective equipment Fire-fighters should wear full protective clothing and self-contained breathing apparatus

5.3 Further Information: Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Use personal protective equipment. Provide adequate ventilation.
Avoid contact with skin and eyes. Do not breath dust.
For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.
Keep contaminated washing water and dispose of appropriately

6.3 Methods and materials for containment and cleaning up

Cleaning up: Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

Further information: Treat recovered material as described in the section "Disposal considerations"

6.4 Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information

7. Handling and storage

7.1 Precautions for safe handling

Safe Handling: Store in cool, dry place in tightly closed receptacles.
Provide suction extractors if dust is formed.
Restrict the quantity stored at the work place.
Do not refill residue into storage receptacles.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.
Avoid contact with skin, eye and clothing.

7.2 Conditions for safe storage, including any incompatibilities.

Storage Requirements: Store only in the original receptacle.

Protection against fire : Normal measures for preventive fire protection

Further information: Protect from humidity and water.

Common storage: Do not store together with acids.

7.3 Specific end uses No information is available.

8. Exposure control/personal protection

8.1 Control parameters

Components with critical values that require monitoring at the workplace: Observe all workplace limits for dust.

Sodium dichloroisocyanurate, dihydrate		ppm	mg/m³
WEL (Great Britain)	Short-term value:		0.07
	Long Term Value		0.02
	Sen; as -NCO		

Exposure controls

General

Keep away from foodstuffs, beverages and food. Instantly remove any contaminated garments. Wash hands during breaks and at the end of the work day. Use skin protection cream for preventive skin protection. Do not eat, drink or smoke while working.

Personal protective equipment

Respiratory protection: Dust proof mask - particle filter mask
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. Use breathing protection in case of dust formation.

Hand protection: Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

Suitable Material: Nitrile rubber, NBR: Chloroprene rubber, CR: Butyl rubber, BR

Eye protection: Tightly sealed safety goggles approved to standard EN 166. Provide eye station

Skin and body protection: Protective clothing should be selected specifically for the work place.

General advice: General room ventilation plus local exhaust should be used to maintain exposure below TLV. Eyewash and emergency shower facilities recommended. Remove and wash contaminated clothing before reuse.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Granules
Colour:	White
Odour:	Like chlorine
pH @ 20°C:	6
Melting Point	250°C
Boiling point/boiling range:	Not determined
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas)	Not determined
Bulk Density @ 20°C:	1000 kg/m³
Water solubility:	250 g/l
Ignition temperature:	250°C
Decomposition Temperature:	> 145°C
Viscosity, kinematic:	Not Applicable
Explosive properties:	Product is not explosive.
Oxidising properties:	Oxidiser
Organic solvents:	0.00%

9.2 Other Information

Solids content 100%

Trade Name: Spa Fusion

10. Stability and reactivity

10.1 Reactivity

Reactivity: Strong exothermic reaction with acids.

10.2 Chemical stability

Chemical stability: To avoid thermal decomposition do not overheat.

10.3 Possibility of hazardous reactions

Hazardous reactions: Reacts with oxidizing agents, strong alkalis, amines and flammable substances
Reacts with acids releasing chlorine.
Reacts with reducing agents.

10.4 Conditions to avoid

Conditions to avoid: No information available.

10.5 Incompatible materials

Incompatible materials: Warning! Do not use together with other products. May release dangerous gases (chlorine).

10.6 Hazardous decomposition products

Haz. Decomp. Products: Hydrogen chloride (HCl) : Chlorine : Nitrogen oxides (NOx)

11. Toxilogical Information

11.1 Information on toxilogical effects

sodium dichloroisocyanurate, dihydrate				**51580-86-0**
Route	**Species**	**Test**	**Value**	**Units**
Oral	Rat	LD50	1400	mg/kg
Dermal	Rabbit	LD50	>5000	mg/kg
Inhalative	Rat	LC50	950	mg/kg
disodium peroxodisulphate				**7775-27-1**
Oral	Rat	LD50	920	mg/kg
Dermal	Rat	LD50	> 10000	mg/kg
Inhalative	Rat	LD50	> 5.1	mg/kg

Primary irritant effect:

on the skin: No irritant effect

on the eye: Irritant effect.

Sensitization: Sensitization possible through inhalation.
Sensitization possible through skin contact.

Carcinogenic No further information available

Mutagenic No further information available

12. Ecological Information

12.1 Toxicity Very Toxic for fish

disodium peroxodisulphate		**7775-27-1**	
Species	**Test**	**Value**	**Units**
daphnia	EC50	133	mg / l
(Danio rerio (Zebrabärbling))	EC50	4.4	mg / l
(Selenastrum capricornutum (Grünalge)	IC50	33	mg / l

12.2 Persistence and degradability

Persistence and degradability No further relevant information

12.3 Bioaccumlative potential

Bioaccumlative potential No further relevant information

(continued on Page 6)

12. Ecological Information

12.4 Mobility in soil

Mobility in soil No further relevant information

12.5 PBT and PvB assessment

PBT and PvB Not applicable

12.6 Other adverse effects Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms

13. Disposal Considerations

13.1 Waste treatment methods

-Disposal should be in accordance with local, state or national legislation
-Do not reuse empty containers without commercial cleaning or reconditioning
-Do not discharge into drains or the environment ,dispose to an authorised waste collection point

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 your waste disposal partner or the responsible authority

14. Transport Information


14.1 UN Number 1505

14.2 UN proper shipping name 1505 SODIUM PERSULPHATE, ENVIRONMENTALLY HAZARDOUS

14.3 Transport hazard class(es)

Class	5.1	Oxidising Substances
Classification Code	O2	
Hazard label	50	
Transport Category	3	
EMS No	F-A,S-Q	
Tunnel	E	
LQ	5 kg	

14.4 Packaging Group III

14.5 Environmental hazards Classified as environmentally hazardous:
Marine Pollutant

Special marking Fish and tree

14.6 Special precautions for user Warning: Oxidising substances

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
SGAV

Trade Name: Spa Fusion

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.
This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out

16. Other information

Relevant phrases

H272	H272 May intensify fire; oxidiser.
H302	H302 Harmful if swallowed.
H315	H315 Causes skin irritation.
H317	H317 May cause an allergic skin reaction.
H319	H319 Causes serious eye irritation.
H334	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	H335 May cause respiratory irritation.
H400	H400 Very toxic to aquatic life.
H410	H410 Very toxic to aquatic life with long lasting effects

Warning! Do not use together with other products. May release dangerous gases (chlorine).
Use biocides safely. Always read the label and product information 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.

• **Abbreviations and acronyms:**

ADR:	Accord europeen sur le transport des marchandises dangereuse par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
IATA-DGR	Dangerous goods Regulations by the 'International Air Transport Association' (IATA)
ICAO:	International Civil Aviation Organization
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS	European Inventory of Existing Commercial Chemical Substances.
CAS:	Chemicals Abstracts Service (division of the American Chemical Society)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent

Revision 4
Indicates updated section.