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

1.1 Product Identifier

Trade Name: Spa Fusion

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

Uses: At this time we do not yet have information on identified uses.
Restrictions: At this time we do not yet have information on identified restrictions

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)

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

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger	Risk phrases
Corrosive	R35

For the full text of the R phrases 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).

2. Hazard Identification…cont

Precautionary statements:

General

Prevention	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
Response	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Storage	P405	Store locked up.

Hazardous components which must be listed on the label

sodium dichloroisocyanurate Dihydrate,

2.3 Other Hazards

No other information is available.

3. Composition/information on ingredients

3.1 Substances

Chemical Nature: Granules

Chemical Name	Identification Numbers		Amount %
	Cas No	EC No.	
sodium dichloroisocyanurate Dihydrate,	51580-86-0	220-767-7	25-50%
disodium peroxide sulphate	7775-27-1	231-890-1	2.5-10%

4. First Aid measures

4.1 Description of first aid measures

General Advice:	Take off all contaminated clothing immediately.
If inhaled: :	In case of accident by inhalation: remove 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:	Wash off with plenty of water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
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:	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	No further information available.
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 extinguishing media:	Extinguishing Powder
Unsuitable extinguishing media:	Water

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire	May decompose in a fire giving off toxic fumes. Hazardous decomposition products.: Nitrogen Oxides (Nox) Hydrogen Chloride (HCl)

5.3 Advice for fire-fighters

Special protective equipment for fire-fighters:	In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit).
Further Information:	Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. 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

Methods and materials for containment and cleaning up	Dispose 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

For personal protection see section 8

7. Handling and storage

7.1 Precautions for safe handling

Advice on 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.

Requirements for storage areas and containers:
Store only in the original receptacle.
Store in a cool location.

Advice on protection against fire and explosion:
Normal measures for preventive fire protection

Further information on storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Protect from humidity and water.

Advice on common storage:
Do not store together with oxidizing and acidic materials.

German storage class:
5.1B

7.3 Specific end uses

Specific use(s)
No information is available.

8. Exposure control/personal protection

8.1 Control parameters

51580-86-0 sodium dichloroisocyanurate, dihyrate

Short - term value : 0.07 mg/m^3
Long - term value : 0.02 mg/m^3
Sen; as - NCO

8.2 Exposure controls

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

Personal protective equipment

Respiratory protection — Advice:
Use respiratory protective device when high concentrations are present.
Short term filter device: P2 or P3

Hand protection — Advice:
The glove material has to be impermeable to the product/the substance/ the preparation. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Protective gloves should be replaced at first sign of wear.

Material:
Butyl rubber, BR

Glove thickness:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed

Eye protection — Advice:
Tightly fitting safety goggles.

Skin and body protection
Protective work clothing, Boots and Apron

(continued on Page 5)

8. Exposure control/personal protection…. Continued

Environmental exposure controls

General advice: Good personal hygiene practises always advisable when working with chemicals.
Avoid subsoil penetration.
If the product contaminates rivers and lakes or drains inform respective authorities

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Granules
Colour:	Colourless
Odour:	Like chlorine
Odour Threshold:	Currently we do not have any information from our supplier about this.
pH @ 20^{u}C:	Currently we do not have any information from our supplier about this.
Melting Point	250°C
Boiling point/boiling range:	Currently we do not have any information from our supplier about this.
Flash point:	Currently we do not have any information from our supplier about this.
Evaporation rate:	Currently we do not have any information from our supplier about this.
Flammability (solid, gas)	Currently we do not have any information from our supplier about this.
Upper explosion limit:	Currently we do not have any information from our supplier about this.
Lower explosion limit:	Currently we do not have any information from our supplier about this.
Vapour pressure:	Currently we do not have any information from our supplier about this.
Relative vapour density:	Currently we do not have any information from our supplier about this.
Density @ 20^{o}C:	1000 kg/m^3
Water solubility:	completely miscible.
Partition coeffcient:n-octanol/water:	Currently we do not have any information from our supplier about this.
Ignition temperature:	Currently we do not have any information from our supplier about this.
Thermal decomposition:	> 145°C
Viscosity, kinematic:	Currently we do not have any information from our supplier about this.
Explosive properties:	Product is not explosive.
Oxidising properties:	Currently we do not have any information from our supplier about this.

9.2 Other Information

Solids content 100%

10. Stability and reactivity

10.1 Reactivity

Advice: Strong exothermic reaction with acids.

10.2 Chemical stability

Advice: No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions: Reacts with acids releasing chlorine.
Reacts with reducing agents.
Reacts with heavy metals.

10.4 Conditions to avoid

Conditions to avoid No information available.

10.5 Incompatible materials

Materials to avoid Acids Reducing agents

10.6 Hazardous decomposition products

Hazardous decomposition products: Chlorine
Hydrogen chloride (HCl)
Carbon monoxide

11. Toxilogical Information

11.1 Information on toxilogical effects

Product: sodium dichloroisocyanurate, dihydrate CAS No: 51580-86-0

Acute toxicity

Oral

Value type	LD50
Value	1400 mg/kg
Species	rat

Primary irritant effect:

on the skin: No irritant effect

on the eye: Irritant effect.

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

Further information

Other relevant toxicity information: All numerical values for acute toxicity are calculated on the pure substances
If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

12. Ecological Information

12.1 Toxicity Remarks: Very Toxic for fish

12.2 Persistence and degradability

Remarks:

12.3 Bioaccumlative potential

Remarks: Currently we do not have any information from our supplier about this.

12.4 Mobility in soil

Remarks: Currently we do not have any information from our supplier about this.

12.5 Results of PBT and PvB

Remarks: Currently we do not have any information from our supplier about this.

12.6 Other adverse effects

Remarks: 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

Product: Disposal together with normal waste is not allowed. Special disposal is required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging: Empty contaminated packaging thoroughly. They can be re-cycled after thorough and proper cleaning. Packaging that cannot be cleaned is to be disposed of in the same manner as the product

European Waste Catalogue No: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport Information

14.1 UN Number 1505

14.2 UN proper shipping name

ADR:	SODIUM PERSULPHATE
RID:	SODIUM PERSULPHATE
IMDG:	SODIUM PERSULPHATE

14.3 Transport hazard class(es)

ADR Class	5.1
(Label, classification code; Hazard ID; Tunnel Restriction code)	5.1 c1; 50; (E)
RID Class	5.1
(Label, Classification Code; Hazard ID;)	5.1 c1; 50; (E)
IMDG Class	5.1
(Labels; EmS)	8; F-A,S-B

14.4 Packaging Group

ADR:	III
RID:	II
IMDG:	II

14.5 Environmental hazards

Labelling according to 5.2.1.8 ADR:	no
Labelling according to 5.2.1.8 RID:	no
Labelling according to 5.2.1.8 IMDG:	no
Classification as environmentally hazardous according to 2.9.3 IMDG:	no
Classified as 'P' according to 2.10 IMDG:	no

14.6 Special precautions for user

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.

Regulatory List	Notification	Notification No

15.2 Chemical Safety Assessment

Currently we do no have any information from our supplier about this.

Trade Name: **Spa Fusion**

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R22	Harmful if swallowed.
R31	Contact with acids liberates toxic gas.
R36/37	Irritating to eyes and respiratory system.
R42/43	May cause sensitisation by inhalation and skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

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

Further information

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	Date	By	Amendment
1	08/11/10	Linda Brueford	GHS label elements added and other minor editorial amendments
2	14/10/11	Linda Brueford	Updated to 2011 European requirements