

# Cyanachlor

.1 Product Ident	ifier			
Trade Name:	Cyanachlor			
L.2 Relevant Iden	tified uses of the substance or	mixture and use	s advised against	
Uses:	For disinfection of pool and s	pa water.		
L.3 Details of the	supplier of the safety data she	et		
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			
L.4 Emergency Te	lephone			
Tel:	+44 (0) 8712 229081 (offic	e hours)	+44 (0) 371 2229084	( outside of office hours)

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.1 Classification of the sul						
Classification according						
Hazard Class Hazard Statements						
Acute Tox. 4 * H302						
Eye Irrit. 2	H319					
STOT SE 3	H335					
STOT SE 3	H400					
Aquatic Acute 1	H410					
Aquatic Chronic 1						
For the full text of the H	I statements me	entioned in this section see Section 16.				
Most important advers	e effects					
Human Health:		See section 11 for toxicological information				
Physical & Chemical Ha	zards:	See section 9 for physicochemical information				
Potential environmental effects:						
		See section 12 for environmental information				
	al effects:	See section 12 for environmental information				
2 Label elements	al effects:	See section 12 for environmental information				
2 Label elements Labelling according to I	al effects:	See section 12 for environmental information				
2 Label elements Labelling according to I	Regulation (EC)	See section 12 for environmental information No 1272/2008				
2 Label elements Labelling according to I Hazard symbols:	Regulation (EC)	See section 12 for environmental information No 1272/2008				
2 Label elements Labelling according to I Hazard symbols: Signal word:	Regulation (EC) GHS07 Warning	See section 12 for environmental information No 1272/2008 GHS09				
2 Label elements Labelling according to I Hazard symbols: Signal word:	Regulation (EC) GHS07 Warning H302	See section 12 for environmental information No 1272/2008 GHS09 Harmful if swallowed.				
2 Label elements Labelling according to I Hazard symbols: Signal word:	Regulation (EC) GHS07 Warning H302 H319	See section 12 for environmental information No 1272/2008 GHS09 Harmful if swallowed. Causes serious eye irritation.				
.2 Label elements Labelling according to I Hazard symbols: Signal word:	Regulation (EC) GHS07 Warning H302 H319 H335	See section 12 for environmental information No 1272/2008 GHS09 Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.				
.2 Label elements Labelling according to I Hazard symbols: Signal word:	Regulation (EC) GHS07 Warning H302 H319 H335 H410	See section 12 for environmental information No 1272/2008 GHS09 Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.				

Cyanachlor

2. Hazard Identificatio	oncont			
Precautionary s	statements:	P102 P103 P260 P280 P402	Keep out o Read label Do not bre Wear prot Store in a	l advice is needed, have product container or label at hand. of reach of children el before use reathe dust tective gloves/protective clothing/eye protection/face protection. dry place. OWED: Call a POISON CENTER or doctor/physician if you feel unwell. ked up
	P30	5+351+338: P273 P501	lenses if pr Avoid relea	5: Rinse continuously with water for several minutes. Remove contact present and easy to do – continue rinsing ease to the environment of contents/container in accordance with legislation
Hazardous com Sodium Dichlor 2.3 Other Hazards PBT / vPvB: Not	oisocyanurat		listed on tl	the label
3. Composition/inform	nation on in	gredients		
<b>3.1 Substances</b> Chemical natur		Granules		
Chemical Name	2	Sodium Dic	hloroisocya	anurate Dihydrate,
CAS No	EC No		%	H & S
51580-86-0	220-767-7		100%	H302, H319, H335,H400,H410

4.1	Description of first aid measures							
	General Advice:	Take off all contaminated clothing immediately.						
If inhaled: :		Move to fresh air. Remove contaminated clothing and loosen remaining clothing. Keep at rest until fully recovered. If breathing is laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a facemask. if breathing has stopped app artificial respiration at once. In event of cardiac arrest, apply external cardiac massage. Seek medical advice. In severe cases pulmonary oedema can be delayed by up to 48 hours.						
	In case of skin contact:	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. It large areas of the skin is damaged or if irritation persists seek medical attention						
	In case of eye contact:	Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Get medical attention						
	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 symptor Symptoms & Effects:	ns and effects, both acute and delayed No further information available.						

Cyanachlor

5. Fire fighting measures	
5.1 Extinguishing media: Suitable media:	Water spray or fog (large quantities available)
Unsuitable media:	No information available
5.2 Special hazards arising fro	m the substance or mixture
Specific Hazards :	Oxidising agent. Not combustible, but will support combustion of other materials. Decomposes upon heating liberating chlorine and oxygen. Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire.
5.3 Advice for fire-fighters	
Protective equipment	Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA). Thoroughly decontaminate fire-fighting equipment including all fire fighting wearing apparel after the incident.
Further Information:	Collect contaminated fire extinguishing water separately.

	rotective equipment and emergency procedures
Personal Precautions:	Use personal protective equipment. Provide adequate ventilation.
	For personal protection see section 8.
6.2 Environmental precaution	ons
Environmental precautio	ns: Do not flush into surface water or sanitary sewer system.
	Avoid subsoil penetration
	If the product contaminates rivers and lakes or drains inform respective authorities
	Local authorities should be advised if significant spillages cannot be contained
6.3 Methods and materials	for containment and cleaning up
Cleaning up	
5 1	Sweep up, avoiding generation of dust, then immediately spread as a thin layer in an
	uncontaminated, dry open area, to avoid the possibility of hot spots forming. Gradually hose
	drain ensuring large dilution. DO NOT store or transport swept up material. DO NOT return
	spilled material to original container. Do not add small amount of water to material. Where a
	spill has occurred in a confined space or an unventilated building and the material is damp an
	evolving chlorine, the rate of chlorine evolution can be reduced by covering the thinly spread
	solid with soda ash. For large spills notify Emergency Services.
6.4 Reference to other secti	ons
For personal protection s	see section 8
landling and storage	
7.1 Precautions for safe han	dling
	-
	Strong oxidising agent. DO NOT MIX WITH OTHER CHEMICALS. Mix only with water. Never a
	water to product. Always add product to water. Use clean dry dispensing equipment. Avoid
Advice on safe handling:	water to product. Always and product to water. Use clean dry dispensing equipment. Avoid

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.

Cyanachlor

7. Handling and storage	
7.2 Conditions for safe stora	ge, including any incompatibilities.
Storage	Keep this product in original, sealed container when not in use. Store in a cool, dry, well-
Protection against fire:	Normal measures for preventive fire protection
Further information	Keep away from children
Common storage:	Keep away from food, drink and animal feeding stuffs. Keep away from combustible material
7.3 Specific end uses	
Specific use(s)	No information is available.

# 8. Exposure control/personal protection

# 8.1 Control parameters

EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical and

Sodium Dichloroisocyanurate Dihydrate,						
State 8 hour TWA 15 min STEL						
UK	$1.5 \text{ mg/m}^3$	2.9 mg/m <sup>3</sup>				

# 8.2 Exposure controls

0.2	Engineering measures	Fume cupboard required when vapours/aerosol are generated. Refer to protective measures listed in sections 7 and 8.				
	Personal protective equip	nent				
	Respiratory protection	In case of brief exposure or low pollution use respiratory filter device Filter AB2P2. Filter AB2P3. In case of intensive or longer exposure use self- contained respiratory protective device				
	Hand protection	Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.				
	Eye protection	Wear safety glasses approved to standard EN 166.				
	Skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact				
	Environmental exposure co	Dispose of in accordance with all applicable local and national regulations.				

# 9. Physical and chemical properties

Form:	Granules
Colour:	Whitish
Odour:	Characteristic chlorine
pH @ 20°C:	7.0 - 10% (aqueous solution)
Melting Point	Not Applicable
Boiling point/boiling range:	Not Applicable
Water solubility:	260 gm/litre @25 <sup>0</sup> C
Partition coeffcient:n-octanol/water:	No data available
Explosive properties:	Product is not pyperiver 7

No data available

No further information

9.2 Other Information

Trade Name: Cyanachlor 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 Gives off hydrogen by reaction with metals. Reacts exothermic with water. 10.4 Conditions to avoid Damp or slightly wet conditions may slowly liberate hazardous gases. (will gradually degenerate Conditions to avoid to Nitrogen Trichloride) **10.5** Incompatible materials Avoid contact with water on concentrated material in the container. Avoid contact with easily Materials to avoid oxidisable material such as organic compounds, reducing agents, Nitrogen containing **10.6 Hazardous decomposition products** Decomposes above 240°C forming chlorine, nitrogen, trichloride, nitrogen oxides, carbon Haz. Decomp. products: dioxide, cyanates and carbon monoxides.

# **11. Toxicilogical Information**

## **11.1 Information on toxilogical effects**

Toxicity Values Sodium Dichloroisocyanurate Dihydrate,

	Route	Species	Test	Value	Units			
	Oral	Rat	LD50	>1,400	mg/kg			
	Oral	Human	LD50	3,570	mg/kg	(lowest lethal dose)		
Ingestion:		Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, ulceration of the stomach, lachrymation, difficulty in breathing, loss of consciousness, coma and possible death.						
Inhalation:		Inhalation of the dust will result in respiratory irritation. Decomposes when wet to evolve chlorine gas. Inhalation of chlorine will result in severe respiratory irritation. Delayed effects can include shortness of breath, severe headache, pulmonary oedema and pneumonia.						
Skin:	Skin: Contact with the skin will result in mild irritation. Repeat or prolonged skin contact may lea allergic contact dermatitis.					eat or prolonged skin contact may lead to		
Eyes:		A severe eye irritant. Contamination of the eyes can result in permanent injury. Corrosive to eyes; contact can cause corneal burns.						
Sensitisation:	Sensitisation: No further information available							
Further informa	Further information         No further information available							

#### 12. Ecological Information

#### 12.1 Toxicity

#### Acute Toxicity

Highly toxic to aquatic life: DO NOT discharge into lakes, ponds or streams. DO NOT discharge into public waters unless in accordance with consent to discharge orders.

# Sodium Dichloroisocyanurate Dihydrate,

Species	Time	Test	Value	Units
		Page 5 of 7		

Fish	96h	LC50	1,000	mg / I
Daphna magna	48h	LC50	1,000	mg / I

# 12.2 Persistence and degradability

Persistence and degradability No data available

2. Ecological Information	
12.3 Bioaccumlative potent	ial
Bioaccumlative potentia	al Not expected to bioaccumulate
12.4 Mobility in soil	
Mobility in soil	Soluble in water, predicted to have high mobility in soil.
	ul effects to aquatic organisms due to pH shift alization is necessary before waste water is discharged into water treatment plants.
. Disposal Considerations	
13.1 Waste treatment meth	ıods
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:	cleaning. Packaging that cannot be cleaned is to be disposed of in the same manner as the product	
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.	

4.1 UN Number		307	7
14.2 UN proper shippir	lg name		IRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (SODIUM DISOCYANURATE DIHYDRATE)
14.3 Transport hazard	class(es)		
Cl	ass	9	
Cl	assification Code	M7	
Ha	azard label	90	
Tr	ansport Category	3	
14.4 Packaging Group		Ш	
14.5 Environmental ha	zards		
Er	vironmentally Hazardo	ous	Yes
Μ	arine Pollutant		Yes
			Page 6 of 7

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

N/a

# Trade Name: Cyanachlor

# 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

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

# 16. Other information

Full text of H	-statements referred to under sections 2 and 3
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.
EUH206	Warning! Do not use together with other products. May release dangerous gases (chlorine).

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.

Revision 26/11/15

# SAFETY DATA SHEET



	substance/preparation and of			
1.1 Product Ident	tifier Jelly Clear Cubes			
1.2 Relevant Iden Uses:	ntified uses of the substance Flocculant	or mixture	and uses advised again	st
<b>1.3 Details of the</b> Company:	supplier of the safety data sl Complete Pool Cor Unit 2, The Park Stoke Orchard Bishops Cleeve Gloucestershire GL52 7RS			
Telephone: E-mail:	+44 (0) 8712 229081 <u>sales@cpc-chemicals.co.uk</u>	Fax:	+44 (0) 8712 229083	
1.4 Emergency T	•	oure)	+44 (0) 1242 200271	( outside of office hour
1.4 Emergency To Tel:	elephone +44 (0) 8712 229081 (office h	iours)	+44 (0) 1242 300271	(outside of office hou
• •	+44 (0) 8712 229081 (office h	iours)	+44 (0) 1242 300271	( outside of office hour
Tel: zard Identification 2.1 Classification Classification	+44 (0) 8712 229081 (office h	c) No 1272/	2008	( outside of office hour
Tel: zard Identification 2.1 Classification Classification The product is 2.2 Label elemen Labelling acc The product do	+44 (0) 8712 229081 (office h of the substance or mixture according to Regulation (EC not classified according to the	<b>c) No 1272</b> /2 CLP regula <b>1272/2008</b> to the calcu	2008 tions	

3.2 Mixture			
Chemical nature:	Non-ionic poly-amine/po	oly-acrylamide blend	
Chemical Name		CAS-No.	EC-No.
Poly (diallydimethylan	nmonium chloride)	26062-79-3	201-173-7
Polyacrylamide	,	08/05/9003	

# 4. First Aid measures

<b>4.1 Description of first aid</b> General Advice:	<b>measures</b> This product poses minimal health hazards	
If inhaled:	Unlikely route of exposure; move patient to fr	resh air
In case of skin contact:	Generally product does not irritate skin. Was	h with plenty of water.
In case of eye contact:	May cause irritation, tearing and blurred visio consult a physician.	n; flush with water for 15 minutes,
If swallowed:	May cause irritation to mucous membranes, plenty of water and consult a physician.	oesophagus and deep tissue; drink
4.2 Most important sympto	oms and effects, both acute and delayed	No further information available.

4.3 Indication of immediate medical attention and special treatment needed

Treat Symptomatically

**Jellyclear Cubes** 

5. Fire fig	hting measures	
5.1	<b>Extinguishing media:</b> Suitable media :	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
5.2	Special hazards arising	from the substance or mixture
	Specific Hazards :	None. Product is not flammable and not explosive. Product and containers may undergo thermal decomposition and emit noxious gases.
5.3	Advice for fire-fighters PPE for fire-fighters:	In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit).
	Further Information:	No further information available

Personal Precautions:	s, protective equipment and emergency procedures Use personal protective equipment. Provide adequate ventilation.
6.2 Environmental preca	utions
•	ns: Do not allow to enter sewers surface or ground water.
	· · · · · · · · · · · · · · · · · · ·
6.3 Methods and materia	Is for containment and cleaning up
6.3 Methods and materia Cleaning up.	Is for containment and cleaning up Pick up manually. Spillages may make surfaces very slippery. Flush with large
	• •

# 7. Handling and storage

# 7.1 Precautions for safe handling

Advice on safe handling: No special requirements, general ventilation is sufficient

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area.

# 7.2 Conditions for safe storage, including any incompatibilities. Storage areas : Store in original container Fire and explosion: No special measures required

- Storage conditions: Keep this product in original, closed container when not in use. Store in a cool, dry, well-ventilated area.
- Common storage: Keep away from food, drink and animal feeding stuffs.
- 7.3 Specific end uses No information is available.

Jellyclear Cubes

8.1 (	Control parameters	Contains no substances with occupational exposure limit values
	Exposure controls Engineering measures	Refer to protective measures listed in sections 7 and 8.
(	General Information:	Use in a well ventilated area
	Personal protective equ Respiratory protection	<b>ipment</b> Not required
ł	Hand protection	Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
E	Eye protection	Wear safety glasses approved to standard EN 166.

# 9. Physical and chemical properties

9.1 Information on basic ph	ysical and chemical properties
Form:	Gel Block
Colour:	Blue or Pink
Odour:	None
pH @ 20°C:	Not known
Boiling point/boiling range:	>100°C
Vapour pressure:	Not known
Relative vapour density:	3.4
Density @ 20°C:	1 - 1.05
Water solubility:	completely miscible.
Explosive properties:	Product is not explosive.
9.2 Other Information	No further information available

# 10. Stability and reactivity

10.1 Reactivity Reactivity	No information available.			
<b>10.2 Chemical stability</b> Chemical stability	No decomposition if stored and applied as directed.			
10.3 Possibility of hazardous reactions				
Hazardous reactions:	Thermal decomposition during a fire may release carbon monoxide, carbon dioxide, nitrogen dioxide, hydrogen chloride and other noxious gases.			
<b>10.4 Conditions to avoid</b> Conditions to avoid	Heating above 48.9°C			
<b>10.5 Incompatible materials</b> Incompatible materials	Alkalis or oxidisation/reduction agents			
10.6 Hazardous decomposit Haz. Decomp. products	ion products Stable under recommended storage conditions.			

Jellyclear Cubes

# **11. Toxilogical Information**

# 11.1 Information on toxilogical effects

Poly (diallydimethylammonium chloride)				
Route	Species	Test	Value	Units
Oral	Rat	LD50	>5000	mg/kg

### **Primary Irritant effect:**

On the skin: No irritant effect On the eyes: May cause irritation, tearing and blurred vision to the eyes

Sensitization: No information available Carcinogenic No information available Mutagenic No information available

Further information No further information available

12.1 Toxicity	
Toxicity	Minimum hazard if well diluted with water
12.2 Persistence and d	legradability
	dability No data available
12.3 Bioaccumlative p	otential
Bioaccumlative pot	ential No data available
12.4 Mobility in soil	
Mobility in soil	No data available
12.5 PBT and PvB ass	essment
PBT and PvB	No data available
12.6 Other adverse eff	ects
Other adverse effe	cts Avoid direct release to the environment

### **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

Jellyclear Cubes

ransport Information	
14.1 UN Number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packaging Group	Not applicable
14.5 Environmental hazards	Clean up even minor leaks or spills if possible without unnecessary risk
14.6 Special precautions for user	Not applicable

# 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** No information available

# **16. Other information**

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.

# Abbreviations and acronyms:

- 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 5 Indicates updated section