

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

- **1.1 Product identifier**
 - **Trade name:** PC790 Liquid
 - **EC number:**
921-024-6
 - **EU Registration number** See below.
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the mixture** Industrial Solvent
- **Uses advised against**
Food contact, additive.
Not for mixing/formulation by public/consumer. Industrial only.
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier:**
Cyanotec Ltd
Bay 2, Building 62, Third Avenue,
Pensnett Trading Estate,
Kingswinford, West Midlands
DY6 7XT
United Kingdom
Tel.: 01384 294 753
email: sales@cyanotec.com
- **Further information obtainable from:** Contact us at the above office.
- **1.4 Emergency telephone number:** (+44) 01384 294 753 (Hours 09:00 - 17:00 Mon to Thurs)

SECTION 2: Hazards identification

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



flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.


 Skin Irrit. 2 H315 Causes skin irritation.
 STOT SE 3 H336 May cause drowsiness or dizziness.
 · **Additional information:** Benzene < 0.01%w/w

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the GB CLP regulation.

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· Hazard pictograms

GHS02 GHS07 GHS08 GHS09

· Signal word Danger**· Hazard-determining components of labelling:**Hydrocarbons, C7, isoalkanes, n-alkanes, cyclics
n-hexane**· Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P243 Take action to prevent static discharges.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P362+P364 Take off contaminated clothing and wash it before reuse.

P403+P235 Store in a well-ventilated place. Keep cool.

· 2.3 Other hazards**· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances**· CAS No. Description**

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

(Related CAS 64742-49-0)

EU REACH Reg No.. 01-2119484651-34 40-60%

EU REACH Reg No. 01-2119475515-33 30-50%

· Identification number(s)**· EC number:** 921-024-6**· Dangerous components:**

CAS: 110-54-3 EINECS: 203-777-6	n-hexane Flam. Liq. 2, H225 Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	≤ 5%
	Hydrocarbons, C7, isoalkanes, n-alkanes, cyclics Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	95-100%

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Seek immediate medical advice.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Dispose of contaminated clothing as hazardous waste. Observe precautions.

Repeated skin contact may result in irritation and dermatitis. Always wear protective gloves suitable for this product.

· After eye contact:

Rinse opened eye for at least 15 minutes under clean running water. Remove contact lenses if possible. Seek immediate medical advice.

Continue to irrigate the eye with clean water.

Seek medical advice if any discomfort continues

· After swallowing:

A person vomiting while laying on their back should be turned onto their side.

Do NOT induce vomiting; rinse mouth with water, call for medical help immediately.

· Information for doctor:

Risk of lung aspiration due to low viscosity of product.

If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

· 4.2 Most important symptoms and effects, both acute and delayed

Headache

Dizziness

Unconsciousness

Nausea

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with aqueous film forming foam (AFFF). Cool containers with water spray.

· For safety reasons unsuitable extinguishing agents:

Water with full jet (risk of spreading fire).

· 5.2 Special hazards arising from the substance or mixture

Carbon monoxide (CO), if incomplete combustion.

· 5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Wear protective clothing.

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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*Dispose contaminated material as waste according to item 13.**Ensure adequate ventilation.**Send for recovery or disposal in suitable receptacles - may need to be UN approved.**Urgent consideration should be given to blanketing spillage with AFFF Foam Spray to seal from sources of ignition as a precautionary measure.***· 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.***SECTION 7: Handling and storage****· 7.1 Precautions for safe handling***Store in cool, dry place in tightly closed receptacles.**Ensure good ventilation/exhaustion at the workplace.**Open and handle receptacle with care.**Take note of emission threshold.**Use only in well ventilated areas.**Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).***· Information about fire - and explosion protection:***Keep ignition sources away - no naked sparks/flames/fires. Ensure electrical equipment is protected to correct Zone rating (DSEAR Assessed)**Protect against electrostatic charges. Where required - ensure bonding and earthing of containers and process equipment.**Static generation and accumulation may be increased when using fine filters, strainers, mixing with powders and immiscible liquids, high energy/speed mixers. Take extra precautions. Allow static relaxation time for charges to dissipate before next steps. Do not splash fill.**Refer to IEC/TS 60079-32-1: Electrostatic hazards, guidance.**Refer to NFPA 77: Recommended Practices on Static Electricity**Keep respiratory protective device available.**Do not spray onto a naked flame, hot surfaces, electrical switchgear, live/battery connected electrics, or near to any potential sources of ignition.**Flammable gas-air mixtures may form in empty receptacles.**Wear shoes with conductive soles.***· 7.2 Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:***Store in a cool location.**Provide solvent resistant, sealed floor.**Prevent any seepage into the ground.**Provide ventilation for receptacles.**Use only receptacles specifically permitted for this substance/product.**Unsuitable material for receptacle: aluminium.**Store in area marked with EX signs under Dangerous Substances and Explosive Atmosphere Regs.**Follow HSE guidance for storage of flammable substances.**Flameproof/explosion proof electrical equipment must be used (ATEX Regulations)**Only store in suitable bunded storage areas.**Ensure no sources of ignition are present.***· Information about storage in one common storage facility:***Do not store together with alkalis (caustic solutions).**Store away from oxidising agents.***· Further information about storage conditions:***Keep container tightly sealed.**Store in cool, dry conditions in well sealed receptacles.**Store receptacle in a well ventilated area.**You are recommended to refer to HSE publications HSG51 - The Storage of Flammable Liquids in Containers; and HSG140 - The Safe Use and Handling of Flammable Liquids, for more detailed understanding of the practices to be adhered to.*

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Composite plastic IBC's risk sudden and total loss of product in event of fire. Ensure bunded areas are adequate.

Ideally, do not store composite plastic IBC's with other packaged flammable goods.

· **Storage class:** Temperature Class (ATEX) = T3

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

Not required, or an official workplace exposure limit is not known or assigned.

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Avoid alcohol consumption while working with the product.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Recommended filter device for short term use:** Filter AX

· **Protection of hands:**



Protective gloves

Solvent resistant gloves. Use gloves approved to BS EN 374 : Protective Gloves against Chemicals.

Chemical Resistant Gloves, class 4 or higher for prolonged exposure.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Durability and suitability of glove material is usage dependent. We recommend advice from an experienced glove supplier.

Always wear gloves with clean hands. Contaminated gloves should always be replaced.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Ideally a breakthrough time of >480 minutes is recommended, but >240 minutes should be viewed as minimum for continuous contact.

· **Eye protection:**



Tightly sealed goggles or equivalent eyewear. Approved to EN166 Standard.

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· Body protection:

Protective work clothing, ideally with anti-static properties - especially if a DSEAR risk assessment warrants this type of clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· General Information****· Appearance:****Form:** Liquid**Colour:** Colourless (Aged product may darken depending upon storage conditions and time period)**· Odour:** Characteristic**· Change in condition****Melting point/freezing point:** Undetermined.**Initial boiling point and boiling range:** 60 °C**· Flash point:** < - 25 °C**· Auto-ignition temperature:** >230 deg c**· Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.**· Explosion limits:****Lower:** 0.9 Vol %**Upper:** 8.0 Vol %**· Vapour pressure at 20 °C:** 160 hPa**· Density at 20 °C:** 0.670 - 0.690 g/cm³**· Solubility in / Miscibility with water:** Not miscible or difficult to mix.**· Viscosity:****Organic solvents:** 100 %**VOC (EC)** 100 %**· 9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.**· 10.2 Chemical stability****· Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications and industry good practice.

· 10.3 Possibility of hazardous reactions No dangerous reactions known.**· 10.4 Conditions to avoid** No further relevant information available.**· 10.5 Incompatible materials:** Acids, strong oxidising agents, strong alkalis.**· 10.6 Hazardous decomposition products:** Carbon monoxide if incomplete combustion.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects**· Acute toxicity** Based on available data, the classification criteria are not met.**· Primary irritant effect:****· Skin corrosion/irritation**

Causes skin irritation.

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- **Serious eye damage/irritation** Persistent exposure may cause irritation. Not classed as an eye irritant.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household refuse. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:**
Waste Solvent Disposal must be made according to official regulations. Refer to Hazardous Waste Regulations 2005. Requires movement under Consignment note by licensed waste carrier. We may be able provide this service - please contact us for more details.
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Please contact us if you wish to return your used packaging (205litre and IBC's only).
Containers to be scrapped as waste must be cleaned so that no hazardous substances remain, otherwise uncleaned containers containing residue for scrap will need to be consigned as hazardous waste as per WM3.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN3295

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· 14.2 UN proper shipping name · ADR	3 2 9 5 HYDROCARBONS, LIQUID, N.O.S., ENVIRONMENTALLY HAZARDOUS, special provision 640D
· IMDG, IATA	HYDROCARBONS, LIQUID, N.O.S.
· 14.3 Transport hazard class(es) · ADR	
 	
· Class · Label	3 Flammable liquids. 3
· IMDG, IATA	
	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	No Symbol (fish and tree)
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number:	Warning: Flammable liquids. 33 F-E,S-E
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Transport category · Tunnel restriction code	1L 2 D/E
· UN "Model Regulation":	UN3295, HYDROCARBONS, LIQUID, N.O.S., special provision 640D, ENVIRONMENTALLY HAZARDOUS, 3, II

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation.

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· **Relevant phrases**

None

*H225 Highly flammable liquid and vapour.**H304 May be fatal if swallowed and enters airways.**H315 Causes skin irritation.**H336 May cause drowsiness or dizziness.**H361f Suspected of damaging fertility.**H373 May cause damage to organs through prolonged or repeated exposure.**H411 Toxic to aquatic life with long lasting effects.*· **Training hints***Make users aware of the contents of this document and train according to use and risks within your operation.*· **Department issuing SDS:** Product safety department.· **Contact:** Sales Office in the first instance.· **Abbreviations and acronyms:***RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)**ICAO: International Civil Aviation Organisation**ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOC: Volatile Organic Compounds (USA, EU)**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Flammable liquids – Category 2**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Repr. 2: Reproductive toxicity – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2**Asp. Tox. 1: Aspiration hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

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