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

1.1. Product identifier

Product form	:	Mixture
Product name	:	PC77 Primer - Liquid
UFI	:	TQF1-3WH7-M119-CNR1
Product code	:	PC77 LIQUID
Type of product	:	Adhesion promotor
Product group	:	Trade product

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

1.2.1. Relevant identified uses

Use of the substance/mixture	:	Solvent-based primer for treating surfaces prior to bonding with cyanoacrylate adhesives
Use of the substance/mixture	:	Adhesion promotor
Function or use category	:	Non-metal-surface treatment products

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cyanotec Ltd
Bay 2 building 62 third avenue
Kingswinford
Dudley
West Midlands
DY6 7XT

Tel: +44(0)1384 294753
Email: sales@cyanotec.com

www.cyanotec.com

1.4. Emergency telephone number

Emergency number	:	+44 (0)1384 294753 (Office hours 0900-1700hrs MONDAY TO THURSDAY) UK Only - IN CASE OF TOXIC OR TRANSPORT EMERGENCY: National Chemical Emergency Centre: Telephone 01865 407333

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause drowsiness or dizziness. Highly flammable liquid and vapour.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :


GHS02


GHS07


GHS08


GHS09

Signal word (CLP)	:	Danger
Contains	:	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Hazard statements (CLP)	:	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. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	:	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing vapours. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear eye protection, protective gloves. P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P370+P378 - In case of fire: Use media other than water to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P363 - Wash contaminated clothing before reuse. P273 - Avoid release to the environment.
EUH-statements	:	EUH208 - Contains Triphenylphosphine. May produce an allergic reaction.
Extra phrases	:	For professional and industrial use only.

2.3. Other hazards

Other hazards which do not result in classification : Static-accumulating. In use may form flammable/explosive vapour-air mixture.

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	CAS-No.: 64742-49-0 EC-No.: 927-510-4 REACH-no: 01-2119475515-33	≥ 90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Triphenylphosphine	CAS-No.: 603-35-0 EC-No.: 210-036-0 REACH-no: 01-2119475464-32	≥ 0.1 – < 0.3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 1, H372

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor. If unconscious, place in the recovery position and seek medical advice. If not breathing, give artificial respiration.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do not induce vomiting. Rinse mouth out with water. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Obtain emergency medical attention.

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

Symptoms/effects : May cause drowsiness or dizziness. IF SWALLOWED: May result in aspiration into the lungs, causing chemical pneumonia.

Symptoms/effects after inhalation : Inhalation of vapors may cause drowsiness, dizziness, cough and headache. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Overexposure may cause : Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.

Symptoms/effects after skin contact : Causes mild skin irritation. Prolonged or repeated contact may cause dermatitis by loss of natural skin fats.

Symptoms/effects after eye contact : Causes eyes to water. mild eye irritation. Stinging.

Symptoms/effects after ingestion : May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract. Abdominal pain, nausea. Risk of aspiration pneumonia. Risk of lung oedema.

Chronic symptoms : Respiratory difficulties. Repeated or prolonged skin contact can result in sensitisation in susceptible individuals.

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

Treat symptomatically. An eyewash station should be available on the premises. If breathing is difficult, give oxygen.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO_2).

Unsuitable extinguishing media : high volume water jet or water based extinguishing media. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour. The vapours are denser than air and may travel along the ground. Distance ignition possible.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in case of fire : Combustion products may include the following: carbon oxides (CO, CO_2) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO_2 etc.).

5.3. Advice for firefighters

Precautionary measures fire	:	Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
Firefighting instructions	:	Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire.
Protection during firefighting	:	Wear fire/flame resistant/retardant clothing. Positive pressure self-contained breathing apparatus (SCBA).
Other information	:	Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	No flames, no sparks. Eliminate all sources of ignition. Use special care to avoid static electric charges. Notify authorities if product enters sewers or public waters.

6.1.1. For non-emergency personnel

Protective equipment	:	Safety glasses. Gloves.
Emergency procedures	:	Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, vapours. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment	:	Do not attempt to take action without suitable protective equipment : . Safety glasses. (ISO 16321-1). Gloves. (ISO 374-2). Respiratory protection. (EN 405. EN 14387). For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	:	Evacuate unnecessary personnel. Keep people away from and upwind of spill/leak. Avoid breathing vapours. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid. Reduce vapour with vapour-suppression foam. Use non-sparking tools.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	:	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	:	Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Use non-sparking tools. Place spent adsorbent in sealed packages and contact specialist waste disposal contractor.
Other information	:	Dispose of materials or solid residues at an authorized site. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	:	In use, may form flammable vapour-air mixture. Electrostatic charges may be generated during handling. Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use only outdoors or in a well-ventilated area. Ensure that there is a suitable ventilation system. Do not handle in a confined space. Avoid breathing fume, vapours. Wear eye protection, protective gloves. Avoid contact with skin and eyes.

Hygiene measures	:	Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Ensure adequate ventilation, especially in confined areas. Store away from direct sunlight or other heat sources. Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	:	Keep only in the original container in a cool, well ventilated place away from : Heat and ignition sources, sparks, open flames. Keep container tightly closed. Keep in fireproof place.
Incompatible products	:	Strong oxidizing agents. Strong acids.
Incompatible materials	:	heat. hot surfaces. Sources of ignition. sparks. open flames. Direct sunlight.
Storage temperature	:	5 – 25 °C
Heat and ignition sources	:	Ensure lighting and electrical equipment are not a source of ignition.
Storage area	:	Fireproof storeroom. Store away from direct sunlight or other heat sources. Take precautionary measures against static discharge.
Packaging materials	:	Always store product in a container of the same material as original container.

7.3. Specific end use(s)

Adhesion promotor.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

PC77 Primer - Liquid	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	500 ppm
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	1800 mg/m³
	600 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	500 ppm

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
See Section 7 for information on safe handling. An eyewash station should be available on the premises. Ensure that there is a suitable ventilation system. Take precautionary measures against static discharge. Use non-sparking tools.

8.2.2. Personal protection equipment

Personal protective equipment:
Safety glasses. Gloves.

Personal protective equipment symbol(s):


8.2.2.1. Eye and face protection

Eye protection:
Safety glasses. (ISO 16321-1)

Eye protection			
Type	**Field of application**	**Characteristics**	**Standard**
Safety glasses	Droplet	With side shields	ISO 16321-1:2021

8.2.2.2. Skin protection

Skin and body protection:
Normal overalls

Hand protection:
Protective gloves. ISO 374-2. Replace gloves immediately whenever signs of wear or perforation appear

Hand protection					
Type	**Material**	**Permeation**	**Thickness (mm)**	**Penetration**	**Standard**
Reusable gloves	Nitrile rubber (NBR), Fluoroelastomer (FKM), Viton® II	3 (> 60 minutes)	>0.3		EN 374-2

8.2.2.3. Respiratory protection

Respiratory protection:
No respiratory protection needed under normal use conditions. In case of inadequate ventilation wear respiratory protection. Recommended: Filter type A (brown)

Respiratory protection			
Device	**Filter type**	**Condition**	**Standard**
Reusable half mask	Type A - High-boiling (>65 °C) organic compounds, Filter AX (brown)	If conc. in air > exposure limit	EN 405, EN 14387

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour	:	Colourless.
Appearance	:	Clear, colourless liquid.
Molecular mass	:	98 g/mol
Odour	:	Light odour of petroleum.
Odour threshold	:	50 ppm
Melting point	:	< -20 °C
Freezing point	:	Not available
Boiling point	:	83 – 105 °C
Flammability	:	Highly flammable liquid and vapour.
Explosive properties	:	Vapours may form flammable and explosive mixture with air.
Oxidising properties	:	Not oxidising. by EC criteria.
Lower explosion limit	:	0.6 vol %
Upper explosion limit	:	7 vol %
Flash point	:	-4 °C
Auto-ignition temperature	:	> 200 °C
Decomposition temperature	:	Not available
pH	:	substance/mixture is non-polar/aprotic
Viscosity, kinematic	:	0.95 mm^2/s (calculated value)
Viscosity, dynamic	:	≈ 0.67 cP @20°C
Solubility	:	immiscible and insoluble.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Partition coefficient n-octanol/water (Log Pow)	:	3.07 – 3.78 Quantitative structure-activity relationship (QSAR) @20°C
Vapour pressure	:	6 kPa @20°C
Vapour pressure at 50°C	:	Not available
Density	:	≈ 78 kg/m^3
Relative density	:	0.681 – 0.781
Relative vapour density at 20°C	:	> 1
Particle characteristics	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (ether=1)	:	4
VOC content	:	≥ 98 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use. Explosive vapour/air mixtures may be formed.

10.4. Conditions to avoid

Heat. hot surfaces. Sources of ignition. Sparks. open flames. Direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Amines. Peroxides.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Combustion products may include the following: carbon oxides (CO, CO_2) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO_2 etc.).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	:	Not classified (Based on available data, the classification criteria are not met)

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	
LD50 oral rat	> 5840 mg/kg
LD50 dermal rat	> 2920 mg/kg
LC50 Inhalation - Rat	> 23.3 mg/l Animal: rat, OECD Guideline 403: Acute toxicity (inhalation)

Triphenylphosphine (603-35-0)	
LD50 oral rat	700 mg/kg bodyweight
LD50 dermal	> 4000 mg/kg (24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	12.5 mg/l/4h Animal: rat; animal sex: male, 95% CL: 8,6 - 18,2

Skin corrosion/irritation	:	Causes skin irritation. pH: substance/mixture is non-polar/aprotic
Serious eye damage/irritation	:	Not classified (Based on available data, the classification criteria are not met) pH: substance/mixture is non-polar/aprotic
Respiratory or skin sensitisation	:	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	:	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	:	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	:	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	:	May cause drowsiness or dizziness.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure	:	Not classified (Based on available data, the classification criteria are not met)

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	
LOAEC (inhalation, rat, vapour, 90 days)	16.6 mg/l Animal: rat; animal sex: male
NOAEC (inhalation, rat, vapour, 90 days)	3.3 mg/l Animal: rat; animal sex: male

Triphenylphosphine (603-35-0)	
LOAEL (oral, rat, 90 days)	60 mg/kg bodyweight (OECD 408 method)
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	2.4 mg/l air Animal: rat; animal sex: male
NOAEL (oral, rat, 90 days)	6 mg/kg bodyweight (OECD 408 method)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard	:	May be fatal if swallowed and enters airways.

PC77 Primer - Liquid	
Viscosity, kinematic	0.95 mm²/s (calculated value)

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	
Viscosity, kinematic	0.67 mm²/s @20°C
Aliphatic, alicyclic or aromatic hydrocarbon	Yes

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms	:	Causes skin irritation,Aspiration of the product into the lungs may cause very serious pneumonia

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	Toxic to aquatic life with long lasting effects.
Ecology - water	:	Floats on water
Ecology - water	:	immiscible and insoluble.
Hazardous to the aquatic environment, short–term (acute)	:	Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long–term (chronic)	:	Toxic to aquatic life with long lasting effects.

PC77 Primer - Liquid	
LC50 - Fish [1]	> 13.4 mg/l Oncorhynchus mykiss (Rainbow trout)
NOEC chronic crustacea	0.17 mg/l Species: Daphnia magna Duration: '21 d'
NOEC chronic algae	10 mg/l

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	
LC50 - Fish [1]	> 13.4 mg/l
EC50 - Crustacea [1]	3 mg/l Species: Daphnia magna
EC50 - Other aquatic organisms [1]	3 mg/l
EC50 72h - Algae [1]	10 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	0.32 mg/l Species: Daphnia magna Duration: '21 d'
NOEC (chronic)	0.17 mg/l Species: Daphnia magna Duration: '21 d'

Triphenylphosphine (603-35-0)	
LC50 - Fish [1]	> 10000 mg/l Leuciscus idus (golden orfe)
EC50 - Crustacea [1]	> 5 mg/l Species: Daphnia magna
EC50 - Other aquatic organisms [1]	> 5 mg/l
EC50 72h - Algae [1]	> 5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	≥ 5 mg/l OECD 201: 72 h: Desmodesmus Subspicatus (Green Algae)
NOEC chronic algae	≥ 5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

PC77 Primer - Liquid	
Persistence and degradability	Readily biodegradable.
Biodegradation	98 % 28 days

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	
Persistence and degradability	Readily biodegradable.
Biodegradation	98 % (OECD 301F method)

Triphenylphosphine (603-35-0)	
Persistence and degradability	Rapidly degradable
Biodegradation	< 20 % (OECD 301F method)

12.3. Bioaccumulative potential

PC77 Primer - Liquid	
BCF - Fish [1]	95.3 – 315.7 Quantitative structure-activity relationship (QSAR)
Partition coefficient n-octanol/water (Log Pow)	3.07 – 3.78 Quantitative structure-activity relationship (QSAR) @20°C
Bioaccumulative potential	Low bioaccumulation potential.
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	
Partition coefficient n-octanol/water (Log Pow)	4.66
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow <4).

12.4. Mobility in soil

PC77 Primer - Liquid	
Ecology - soil	Contains volatile component(s). The product evaporates readily. Floats on water. Insoluble in water.
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	
Ecology - soil	Contains volatile component(s).

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	:	Disposal must be done according to official regulations.
Waste treatment methods	:	Dispose as hazardous waste. Incineration in an approved, controlled furnace with combustion gas scrubbing and emission gas control.
Product/Packaging disposal recommendations	:	Handle empty containers with care because residual vapours are flammable. Do not burn empty packaging. Do not cut using a blowtorch. Dispose in a safe manner in accordance with local/national regulations.
Additional information	:	Flammable vapours may accumulate in the container.
Ecological information	:	Do not empty into drains. Avoid release to the environment.
European List of Waste (LoW, EC 2000/532)	:	14 06 03* - other solvents and solvent mixtures 15 01 10* - packaging containing residues of or contaminated by dangerous substances

HP Code : HP3 - “Flammable:”
– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
HP4 - “Irritant – skin irritation and eye damage:” waste which on application can cause skin irritation or damage to the eye.
HP13 - “Sensitising:” waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR) : UN 3295
UN-No. (IMDG) : UN 3295
UN-No. (IATA) : UN 3295
UN-No. (ADN) : UN 3295
UN-No. (RID) : UN 3295

14.2. UN proper shipping name

Proper Shipping Name (ADR) : HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
Proper Shipping Name (IMDG) : HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
Proper Shipping Name (IATA) : Hydrocarbons, liquid, n.o.s. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
Proper Shipping Name (ADN) : HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
Proper Shipping Name (RID) : HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
Transport document description (IMDG) : UN 3295 HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics), 3, II
Transport document description (IATA) : UN 3295 Hydrocarbons, liquid, n.o.s. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics), 3, II
Transport document description (ADN) : UN 3295 HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics), 3, II
Transport document description (RID) : UN 3295 HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics), 3, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3
:

IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3

:


IATA

Transport hazard class(es) (IATA) : 3
Danger labels (IATA) : 3
:


ADN

Transport hazard class(es) (ADN) : 3
Danger labels (ADN) : 3
:


RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3
:


14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : Yes (Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.)
Marine pollutant : Yes (IMDG 5.2.1.6.1 derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg))
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 640D
Limited quantities (ADR) : 1l
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28
Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Operation (ADR) : S2, S20

Hazard identification number (Kemler No.)	:	33
Orange plates	:	
Tunnel restriction code (ADR)	:	D/E
EAC code	:	3YE

Transport by sea

Limited quantities (IMDG)	:	1 L
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
Tank instructions (IMDG)	:	T7
Tank special provisions (IMDG)	:	TP1, TP8, TP28
EmS-No. (Fire)	:	F-E
EmS-No. (Spillage)	:	S-D
Stowage category (IMDG)	:	B
Properties and observations (IMDG)	:	Immiscible with water.

Air transport

PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y341
PCA limited quantity max net quantity (IATA)	:	1L
PCA packing instructions (IATA)	:	353
PCA max net quantity (IATA)	:	5L
CAO packing instructions (IATA)	:	364
CAO max net quantity (IATA)	:	60L
Special provisions (IATA)	:	A3, A324
ERG code (IATA)	:	3H

Inland waterway transport

Classification code (ADN)	:	F1
Special provisions (ADN)	:	640C
Limited quantities (ADN)	:	1 L
Excepted quantities (ADN)	:	E2
Carriage permitted (ADN)	:	T
Equipment required (ADN)	:	PP, EX, A
Ventilation (ADN)	:	VE01
Number of blue cones/lights (ADN)	:	1

Rail transport

Classification code (RID)	:	F1
Special provisions (RID)	:	640C
Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P001
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T7
Portable tank and bulk container special provisions (RID)	:	TP1, TP8, TP28
Tank codes for RID tanks (RID)	:	L1.5BN
Transport category (RID)	:	2
Colis express (express parcels) (RID)	:	CE7
Hazard identification number (RID)	:	33

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	**Applicable on**	**Entry title or description**
40.	PC77 Primer - Liquid ; Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content : ≥ 98 %

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes:

SDS changed sections. Hazards identification. First aid measures. Accidental release measures. Firefighting measures. Exposure controls/personal protection. Physical and chemical properties. Stability and reactivity. Toxicological information. Ecological information. Disposal considerations. Regulatory information.

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
	Supersedes version of	Modified	
	Revision date	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Added	
4.1	First-aid measures after skin contact	Modified	
4.2	Symptoms/effects	Modified	
4.2	Chronic symptoms	Added	
5.1	Suitable extinguishing media	Modified	
5.3	Protection during firefighting	Modified	
6.1	General measures	Modified	
6.1	Protective equipment	Modified	
6.1	Emergency procedures	Modified	
6.3	Other information	Modified	
7.1	Additional hazards when processed	Modified	
7.1	Precautions for safe handling	Modified	
7.2	Technical measures	Modified	
7.2	Incompatible products	Modified	
7.2	Heat and ignition sources	Added	
7.2	Packaging materials	Modified	
8.2	Appropriate engineering controls	Modified	
8.2	Eye protection	Modified	
8.2	Skin and body protection	Modified	
8.2	Hand protection	Modified	
8.2	Respiratory protection	Modified	
9.1	Partition coefficient n-octanol/water (Log Pow)	Modified	
9.1	Viscosity, dynamic	Added	
9.1	Viscosity, kinematic	Modified	
9.1	Particle size	Added	
9.1	Oxidising properties	Modified	
9.1	Molecular mass	Added	
9.1	Odour threshold [ppm]	Added	
9.1	Melting point	Added	
9.1	Flash point	Modified	
9.1	Flammability (solid, gas)	Added	
9.2	VOC content	Added	
10.5	Incompatible materials	Modified	
11.1	Potential adverse human health effects and symptoms	Added	
12.1	NOEC chronic crustacea	Added	

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
12.1	NOEC chronic algae	Added	
12.1	LC50 - Fish [1]	Added	
12.2	Biodegradation	Modified	
12.3	BCF - Fish [1]	Added	
12.3	Bioaccumulative potential	Modified	
12.3	Partition coefficient n-octanol/water (Log Pow)	Modified	
12.4	Ecology - soil	Modified	
13.1	European List of Waste (LoW, EC 2000/532)	Added	
13.1	Ecology - waste materials	Added	
13.1	Waste treatment methods	Modified	
13.1	Product/Packaging disposal recommendations	Modified	
15.1	VOC content	Added	
16	Indication of changes	Modified	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development

Abbreviations and acronyms:	
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Data sources : Supplier's safety documents. ECHA (European Chemicals Agency). UNECE, http://www.unece.org/.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
EUH208	Contains Triphenylphosphine. May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Safety Data Sheet applicable for regions : IE;GB

Safety Data Sheet (SDS), EU