Material Safety Datasheet
Aquaguard SPC Diluting Agent

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

1.1 Product Identifier

Product Name: Aquaguard SPC Diluting Agent

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

Identified Use(s): No information available

Uses Advised Against: No information available

1.3 Details of the supplier of the safety data sheet

Company Name: Polycote UK LLP
Centre Point
Wolseley Road
Woburn Road Industrial Estate
Kempston
Beds
MK42 7EF

Telephone Number: 01234 846400

Emergency Contact Number: 111 (NHS England)

Email address: uksales@polycote.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GB CLP (SI 2020/1567

Flammable liquids Category 3 - (H226)
Acute toxicity - Dermal Category 4 - (H312)
Acute toxicity - Inhalation (Gases) Category 4 - (H332)
Acute toxicity - Inhalation (Vapours) Category 4 - (H332)
Acute toxicity - Inhalation (Dusts/Mists) Category 4 - (H332)
Skin irritation Category 2 - (H315)
Eye irritation Category 2 - (H319)
Specific target organ toxicity - single exposure Category 3 - (H335)
Category 3 Target organ effects: Respiratory irritation.
Specific target organ toxicity - repeated exposure Category 2 - (H373)
Aspiration hazard Category 1 - (H304)

2.2 Label elements:

Hazard pictograms:

Signal word: Danger

Contains Xylene isomer mixture (with up to 20 % Ethylbenzene)

Hazard statements:
H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe dust, fume, gas, mist, vapors and spray.
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 - Do NOT induce vomiting.
P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.

Additional information: This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

2.3 Other hazards: No information available.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS (continue)

Chemical name	Weight -%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Xylene isomer mixture (with up to 20 % Ethylbenzene) 1330-20-7	100%	(601-022-00-9) 215-535-7	-	Flam. Liq. 3 (H226) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Asp. Tox. 1 (H304)	-	-	-	-

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

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures:

General advice: Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Inhalation: Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a doctor.

Ingestion: Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical attention.

Self-protection of the first aider: Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing. Avoid breathing vapours or mists.

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

Symptoms: Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and tearing of the eyes. Burning sensation.

Effects of Exposure: May cause damage to organs through prolonged or repeated exposure.

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

Note to doctors: Because of the danger of aspiration, emesis or gastric lavage should not be used unless the risk is justified by the presence of additional toxic substances.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

5.2 Special hazards arising from the substance or mixture:

Specific hazards arising from the chemical: Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters:

Special protective equipment and precautions for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Personal precautions: Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing vapours or mists.

Other information: Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders: Use personal protection recommended in Section 8.

SECTION 6: ACCIDENTAL RELEASE MEASURES (continue)

6.2 Environmental precautions: Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up:

Methods for containment: Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up: Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections: See section 8 for more information. See section 13 for more information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling: Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations: Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

7.2 Conditions for safe storage, including any Incompatibilities:

Storage conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.

7.3 Specific end use(s)

Risk Management Methods (RMM): The information required is contained in this Safety Data Sheet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Exposure Limits

Chemical name	United Kingdom
Xylene isomer mixture (with up to 20 % Ethylbenzene) 1330-20-7	TWA: 50 ppm TWA: 220 mg/m3 STEL: 100 ppm STEL: 441 mg/m3 Sk*

Biological occupational exposure limits

Chemical name	United Kingdom
Xylene isomer mixture (with up to 20 % Ethylbenzene) 1330-20-7	650 mmol/mol creatinine - urine (Methyl hippuric acid) - post shift

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Xylene isomer mixture (with up to 20 % Ethylbenzene) 1330-20-7	-	212 mg/kg bw/day [4] [6]	221 mg/m3 [4] [6] 442 mg/m3 [4] [7] 221 mg/m3 [5] [6] 442 mg/m3 [5] [7]

Notes

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Xylene isomer mixture (with up to 20 % Ethylbenzene) 1330-20-7	12.5 mg/kg bw/day [4] [6]		65.3 mg/m3 [4] [6] 260 mg/m3 [4] [7] 65.3 mg/m3 [5] [6] 260 mg/m3 [5] [7]

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Notes
[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Xylene isomer mixture (with up to 20 % Ethylbenzene) 1330-20-7	0.327 mg/L	0.327 mg/L	0.327 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Xylene isomer mixture (with up to 20 % Ethylbenzene) 1330-20-7	12.46 mg/kg sediment dw	12.46 mg/kg sediment dw	6.58 mg/L	2.31 mg/kg soil dw	

8.2 Exposure controls:

Engineering controls: Showers
Eyewash stations
Ventilation systems.

Personal protective equipment

Eye/face protection: Tight sealing safety goggles.

Hand protection: Wear suitable gloves. Impervious gloves.

Skin and body protection: Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Respiratory protection: Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical state:	Liquid
Appearance:	Liquid
Colour:	Colourless
Odour:	Aromatic.
Odour threshold:	No Information Available

Property	Values	Remarks • Method
Melting point / freezing point:	-24 °C	-24°C
Initial boiling point and boiling range:	No data available	140 @°C @ 760 mm Hg
Flammability:	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits:	No data available	
Lower flammability or explosive limits:	No data available	
Flash point:	25 °C	Closed cup
Autoignition temperature:	No data available	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution):	No data available	None known
Kinematic viscosity:	No data available	None known
Dynamic viscosity:	No data available	None known
Water solubility	No data available Immiscible with water	None known
Solubility(ies):	No data available	None known
Partition coefficient:	No data available	None known
Vapour pressure:	7.0 mm Hg @ °C	None known
Relative density:	0.868 @ @ 20°C	None known
Bulk density:	No data available	
Liquid Density:	No data available	
Relative vapour density:	3.70	None known

Particle characteristics

Particle Size:	No Information Available
Particle Size Distribution:	No Information Available
Explosive properties:	No information available
Oxidising properties:	No information available

9.2 Other information

Molecular weight:	106.16 0.70 (diethyl ether = 1)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No information available.

10.2 Chemical stability

Stability: Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: Yes.

10.3 Possibility of hazardous reactions: None under normal processing.

10.4 Conditions to avoid: Heat, flames and sparks. Excessive heat.

10.5 Incompatible materials: Strong acids. Strong bases. Strong oxidising agents.

10.6 Hazardous decomposition products: None known based on information supplied.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation: Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).

Eye contact: Specific test data for the substance or mixture is not available. May cause irritation. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact: Repeated exposure may cause skin dryness or cracking. Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion: Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms: Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes.

Acute toxicity: Harmful by skin contact. Harmful by inhalation.

Numerical measures of toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Xylene isomer mixture (with up to 20 % Ethylbenzene)	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation: Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation: Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

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 respiratory irritation.

STOT - repeated exposure: May cause damage to organs through prolonged or repeated exposure.

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

Other adverse effects: No Information Available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Xylene isomer mixture (with up to 20 % Ethylbenzene)	-	LC50: =13.4mg/L (96h, Pimephales promelas) LC50: 2.661 - 4.093mg/L (96h, Oncorhynchus mykiss) LC50: 13.5 - 17.3mg/L (96h, Oncorhynchus mykiss) LC50: 13.1 - 16.5mg/L (96h, Lepomis macrochirus) LC50: =19mg/L (96h, Lepomis macrochirus) LC50: 7.711 - 9.591mg/L (96h, Lepomis macrochirus) LC50: 23.53 - 29.97mg/L (96h, Pimephales promelas) LC50: =780mg/L (96h, Cyprinus carpio) LC50: >780mg/L (96h, Cyprinus carpio) LC50: 30.26 - 40.75mg/L (96h, Poecilia reticulata)	-	EC50: =3.82mg/L (48h, water flea) LC50: =0.6mg/L (48h, Gammarus lacustris)

12.2 Persistence and Degradation: No Information Available.

12.3 Bioaccumulative potential:

SECTION 12: ECOLOGICAL INFORMATION (continue)

Bioaccumulation
Component Information

Chemical name	Partition coefficient
Xylene isomer mixture (with up to 20 % Ethylbenzene)	3.15

12.4 Mobility in soil: No Information Available.

12.5 Results of PBT and vPvB assessment:

Chemical name	PBT and vPvB assessment
Xylene isomer mixture (with up to 20 % Ethylbenzene)	The substance is not PBT / vPvB

12.6 Other adverse effects No Information Available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products: Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

SECTION 14: TRANSPORT INFORMATION

IATA

14.1	**UN number:**	UN1307
14.2	**UN proper shipping name:**	Xylenes
14.3	**Transport Hazard Class(es):**	3
14.4	**Packing group:**	III
	Description:	UN1307, Xylenes, 3, III
14.5	**Environmental hazards:**	Yes
14.6	**Special precautions for user**	
	Special Provisions:	A3
	ERG Code:	3L

IMDG

14.1	**UN number:**	UN1307
14.2	**UN proper shipping name:**	Xylenes
14.3	**Transport Hazard Class(es):**	3
14.4	**Packing group:**	III
	Description:	UN1307, Xylenes, 3, III, (25°C c.c.), Marine pollutant
14.5	**Environmental hazards:**	Yes
14.6	**Special precautions for user**	
	Special Provisions:	223 F-E S-D
14.7	**Maritime transport in bulk according to IMO instruments:**	No Information Available

RID

14.1	**UN number:**	UN1307
14.2	**UN proper shipping name:**	Xylenes
14.3	**Transport Hazard Class(es):**	3
14.4	**Packing group:**	III
	Description:	UN1307, Xylenes, 3, III, Environmentally Hazardous
14.5	**Environmental hazards:**	Yes
14.6	**Special precautions for user**	
	Special Provisions:	None
	Classification code:	F1

ADR

14.1	**UN number:**	UN1307
14.2	**UN proper shipping name:**	Xylenes
14.3	**Transport Hazard Class(es):**	3
14.4	**Packing group:**	II
	Description:	UN1307, Xylenes, 3, III, (D/E), Environmentally Hazardous
14.5	**Environmental hazards:**	Yes
14.6	**Special precautions for user**	
	Special Provisions:	None
	Classification code:	F1
	Tunnel restriction code:	(D/E)

SECTION 15: REGULATORY INFORMATION

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

National regulations

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Dangerous substance category per COMAH (SI 2015/483 as amended)

P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS

Named dangerous substances per COMAH (SI 2015/483 as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons and Explosive Precursors

Not applicable

International Inventories

TSCA:	Contact supplier for inventory compliance status
DSL/NDSL:	Contact supplier for inventory compliance status
EINECS/ELINCS:	Contact supplier for inventory compliance status
ENCS:	Contact supplier for inventory compliance status
IECSC:	Contact supplier for inventory compliance status
KECL:	Contact supplier for inventory compliance status
PICCS:	Contact supplier for inventory compliance status
AIIC:	Contact supplier for inventory compliance status
NZIoC:	Contact supplier for inventory compliance status
TCSI:	Contact supplier for inventory compliance status

Legend:

TSCA:	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL:	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS:	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS:	Japan Existing and New Chemical Substances
IECSC:	China Inventory of Existing Chemical Substances
KECL:	Korean Existing and Evaluated Chemical Substances
PICCS:	Philippines Inventory of Chemicals and Chemical Substances
AIIC:	Australian Inventory of Industrial Chemicals
NZIoC:	New Zealand Inventory of Chemicals
TCSI:	Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment: No Information Available

SECTION 16: OTHER INFORMATION

Specific target organ toxicity — single exposure Category 3
Category 3 Target organ effects: Respiratory irritation.
Specific target organ toxicity — repeated exposure Category 2
Full text of any hazard and/or precautionary statements referred to under Sections 2-15
H226 - Flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H332 - Harmful if inhaled

Chemical name	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)
Xylene isomer mixture (with up to 20 % Ethylbenzene)	Flam. Liq. 3 (H226) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Asp. Tox. 1 (H304)	

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.