

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

1.1. Product identifier

Product Code 6118_GBR
Product Name **Vacsol Aqua 6118**

Registration Number(s) GB-2020-1258

Unique Formula Identifier (UFI) XG10-S0GY-200J-2SFS

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

Recommended Use 528/2012 : Product-type 8: Wood preservatives

Uses advised against Consumer use

Reason why uses advised against Restricted to professional and industrial users

1.3. Details of the supplier of the safety data sheet

Authorization Holder:

Arch Timber Protection, Wheldon Road, Castleford, United Kingdom, WF10 2JT, Tel: +44 (0) 1977 714000

Manufacturer

Arch Timber Protection, Wheldon Road, Castleford, United Kingdom, WF10 2JT, Tel: +44 (0) 1977 714000

For further information, please contact

E-mail address timberprotectionadvice.ukca@arxada.com

1.4. Emergency telephone number

Emergency Telephone NCEC : +44 (0)1235 239 670

Emergency Telephone	
Europe	112
United Kingdom	For health professionals: 0844 892 0111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains Amines, C12-16-alkyldimethyl, isotridecanol, ethoxylated, 2-(2-phenoxyethoxy)ethanol, Penflufen, Permethrin

**Signal word**

Danger

Hazard statements

H315 - Causes skin irritation

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

EUH208 - Contains (Permethrin). May produce an allergic reaction

Precautionary statements

P264 - Wash hand, face and skin thoroughly after handling

P280 - Wear protective gloves/protective clothing and eye/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P332 + P313 - If skin irritation occurs: Get medical advice/attention

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P273 - Avoid release to the environment

P391 - Collect spillage

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.1 Substances****Chemical nature**

Mixture.

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number	Specific concentration limit (SCL)
polyoxyphenol ethoxylate	619-457-8	99734-09-5	7-13	Aquatic Chronic 3 (H412) (M-factor 1)	-	-
Amines, C12-16-alkyldimethyl	270-414-6	68439-70-3	1-5	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Aquatic Acute 1	-	-

				(H400) (M-factor 10) Aquatic Chronic 1 (H410) (M-factor 1)		
2-phenoxyethanol	204-589-7	122-99-6	1-5	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) STOT SE 3 (H335)	-	-
isotridecanol, ethoxylated	500-241-6	69011-36-5	1-5	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	-	-
2-(2-phenoxyethoxy)ethanol	203-227-5	104-68-7	1-5	Eye Dam. 1 (H318)	-	-
Permethrin	258-067-9	52645-53-1	0.1-1	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) (M-factor 1000) Aquatic Chronic 1 (H410) (M-factor 1000)	-	-
Penflufen	619-823-7	494793-67-8	0.1-1	Carc. 2 (H351) Aquatic Acute 1 (H400) (M-factor 1) Aquatic Chronic 1 (H410) (M-factor 1)	-	-

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

Acute Toxicity Estimate

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L
2-phenoxyethanol 122-99-6	1394 mg/kg (ATE)	-	-	-

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	Call a doctor or poison control centre immediately.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. If a person feels unwell or symptoms of skin irritation appear, consult a physician. Wash contaminated clothing before re-use. Wash contaminated clothing before reuse. Wash skin with soap and water. If skin irritation persists, call a doctor.
Ingestion	Rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce

vomiting. Call a doctor or poison control centre immediately.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms See Section 11: TOXICOLOGICAL INFORMATION.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂) Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray or fog

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire. 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 Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water Do not allow run-off from fire-fighting to enter drains or water courses

5.3. Advice for firefighters

Special protective equipment for fire-fighters Use personal protective equipment as required. Wear self-contained breathing apparatus and protective suit

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Shut off source of leak if safe to do so. If spillage occurs at a timber treatment plant site follow on site emergency procedures. If spillage occurs in drainage systems or water courses, notify appropriate authorities immediately.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Recover the product where possible. Take up with sand, earth or other non-combustible absorbent material. Pick up and transfer to properly labelled containers. Seal containers and

label them. Remove contaminated material to safe location for subsequent disposal.

6.4. Reference to other sections

Reference to other sections See Section 7, 8, 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Keep away from food, drink and animal feedingstuffs. Contaminated work clothing should not be allowed out of the workplace. Take off all contaminated clothing and wash it before re-use. 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. Store locked up. Keep out of the reach of children. Incompatible with strong acids and bases. Incompatible with oxidising agents.

7.3. Specific end use(s)

Specific use(s) Product-type 8: Wood preservatives.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
2-phenoxyethanol 122-99-6	-	TWA: 20 ppm TWA: 110 mg/m ³ STEL 20 ppm STEL 110 mg/m ³ Ceiling: 20 ppm Ceiling: 110 mg/m ³	-	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
2-phenoxyethanol 122-99-6	-	-	-	-	TWA: 20 ppm TWA: 110 mg/m ³ STEL: 50 ppm STEL: 290 mg/m ³ ihO*
Chemical name	France	Germany	Germany MAK	Greece	Hungary
2-phenoxyethanol 122-99-6	-	TWA: 1 ppm TWA: 5.7 mg/m ³	TWA: 1 ppm TWA: 5.7 mg/m ³ Peak: 1 ppm Peak: 5.7 mg/m ³	-	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
2-phenoxyethanol 122-99-6	-	-	-	-	TWA: 230 mg/m ³
Chemical name	Portugal	Russia	Romania	Slovakia	Slovenia
2-phenoxyethanol 122-99-6	-	MAC: 2 mg/m ³	-	-	TWA: 110 mg/m ³ TWA: 20 ppm STEL: 20 ppm

Permethrin 52645-53-1	-	MAC: 1 mg/m ³	-	-	STEL: 110 mg/m ³ -
Chemical name	Spain	Sweden	Switzerland	Turkey	United Kingdom
2-phenoxyethanol 122-99-6		-	TWA: 20 ppm TWA: 110 mg/m ³ STEL: 20 ppm STEL: 110 mg/m ³		

Biological occupational exposure limits

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment Eye/face protection

Wear safety glasses with side shields (or goggles). The requirements of EN166 are recommended.

Hand Protection

Wear protective nitrile rubber gloves. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Break through time. > 480 (min)

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Coveralls (type 6 according to EN 14605) that do not allow the biocidal product to pass through.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Environmental exposure controls

Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	off-white
Odour	sweet.
Odour threshold	Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	Not determined	
Boiling point / boiling range	Not determined	
Flammability (solid, gas)	Not determined	
Flammability Limit in Air	Not determined	
Upper flammability limit:		
Lower flammability limit		

Flash point	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
pH	6.92	CIPAC MT 75.3
pH (as aqueous solution)	6.42	solution (1 %)
Kinematic viscosity	Not determined	
Dynamic viscosity	48.405 ± 0.183 mPa s @ 20 °C	OECD 114 / DIN 53015
Water solubility	Not determined	
Solubility(ies)	Not determined	
Partition coefficient	Not determined	
Vapour pressure	Not determined	
Relative density	1.0171	OECD 109 resp. EU A.3
Bulk density	Not determined	
Density	Not determined	
Vapour density	Not determined	
Particle characteristics		
Particle Size	Not determined	
Particle Size Distribution	Not determined	

9.2. Other information

9.2.1. Information with regards to physical hazard classes

Explosive properties	Not an explosive
Oxidising properties	Not oxidising

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact	No information available.
Sensitivity to static discharge	No information available.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Keep from freezing.

10.5. Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidising agents.

10.6. Hazardous decomposition products

None under normal use conditions.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation	Avoid breathing vapours or mists.
Eye contact	Causes serious eye damage. Avoid contact with eyes.
Skin contact	Irritating to skin. Avoid contact with skin.
Ingestion	Do not taste or swallow.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Actual Product Data

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Amines, C12-16-alkyldimethyl	1015 mg/kg (RT)	-	-
2-phenoxyethanol	1394 mg/kg (ATE)	>2214 mg/kg (RBT)	-
isotridecanol, ethoxylated	> 300 - 2000 mg/kg (RT)	>5 000 mg/kg (RT)	-
2-(2-phenoxyethoxy)ethanol	3526 mg/kg (RT)	>5000 mg/kg (RT)	-
Permethrin	480 mg/kg (RT)	>2000 mg/kg (RT)	>4.638 mg/L (RT) 4 h
Penflufen	>2000 mg/kg (RT)	>2000 mg/kg (RT)	-

Note:
 RT = Rat
 RBT = Rabbit
 MSE = Mouse
 GP = Guinea Pig
 V = Vapour

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

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Risk of serious damage to eyes
Sensitisation	Not classified.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.

STOT - single exposure Not classified.

STOT - repeated exposure Not classified.

Aspiration hazard Not classified.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Note:

LC50: Lethal Concentration to 50% of a test population (Median Lethal Concentration)

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

Chemical name	Fish	Crustacea	Algae/aquatic plants	Toxicity to microorganisms
Amines, C12-16-alkyldimethyl	0.256 mg/L LC50 96h (Danio rerio)	0.0558 mg/L EC50 48h (Daphnia magna)	0.0099 mg/L EC50 72h (Desmodesmus suspicatus)	-
2-phenoxyethanol	344 mg/L 96h (Pimephales promelas)	>500 mg/L EC50 48h (Daphnia magna)	>500 mg/L EC50 72h (Desmodesmus subspicatus)	-
isotridecanol, ethoxylated	>1-10 mg/L LC50 96h (Cyprinus carpio)	>1-10 mg/L EC50 48h (Daphnia magna)	>1-10 mg/L EC50 72h (Desmodesmus suspicatus)	-
2-(2-phenoxyethoxy)ethanol	432 mg/L LC50 96h (Oncorhynchus mykiss)	906 mg/L EC50 48h (Daphnia magna)	393 mg/L EC50 72h (Pseudokirchneriella subcapitata)	-
Permethrin	0.00283 mg/L LC50 (Oncorhynchus mykiss)	0.0041 mg/L EC50 48h (Daphnia magna)	>1.13 mg/L EC50 96h (Pseudokirchneriella subcapitata)	-
Penflufen	0.130 mg/L LC50 96h (Cyprinus carpio)	>4.66 mg/L EC50 48h (Daphnia magna)	>5.1 mg/L EC50 72h (Pseudokirchneriella subcapitata)	-

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
2-phenoxyethanol	1.13
Permethrin	6.5

Note:

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.
Contaminated packaging	Improper disposal or reuse of this container may be dangerous and illegal.
Other Information	Rinse the empty container after the product with water, and reuse the used water to prepare a working solution. Containers (IBCs) should be returned to the supplier for recycling. If this is not possible the container should be disposed of via an authorised waste disposal company in accordance with national legislation.

SECTION 14: Transport information**IATA**

14.1 UN number or ID number	UN3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Permethrin, Amines, C12-16-alkyldimethyl)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Permethrin, Amines, C12-16-alkyldimethyl), 9, III
14.5 Environmental hazard	Yes
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	UN3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Permethrin, Amines, C12-16-alkyldimethyl)
14.3 Transport hazard class(es)	9
14.4 Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Permethrin, Amines, C12-16-alkyldimethyl), 9, III, Marine pollutant
14.5 Environmental hazard	Yes
14.6 Special precautions for user	
Special Provisions	274, 335, 969
EmS-No	F-A, S-F

14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN/ID no UN3082
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Permethrin, Amines, C12-16-alkyldimethyl)
14.3 Transport hazard class(es) 9
14.4 Packing Group III
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Permethrin, Amines, C12-16-alkyldimethyl), 9, III
14.5 Environmental hazard Yes
14.6 Special precautions for user
Special Provisions 274, 335, 601, 375
Classification code M6

ADR

14.1 UN number or ID number 3082
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Permethrin, Amines, C12-16-alkyldimethyl)
14.3 Transport hazard class(es) 9
14.4 Packing Group III
Description 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Permethrin, Amines, C12-16-alkyldimethyl), 9, III
14.5 Environmental hazard Yes
14.6 Special precautions for user
Special Provisions 274, 335, 601, 375
Classification code M6
Tunnel restriction code (-)

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
2-phenoxyethanol 122-99-6	RG 84

Germany

Water hazard class (WGK) Water endangering class = 2 (self classification)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Export Notification requirements

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 689/2008 - Annex Number
Permethrin - 52645-53-1	I.1

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed
 H314 - Causes severe skin burns and eye damage
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H319 - Causes serious eye irritation
 H332 - Harmful if inhaled
 H335 - May cause respiratory irritation
 H351 - Suspected of causing cancer
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects
 H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 National Institute of Technology and Evaluation (NITE)
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)

Print Date 31-Oct-2022

Revision Date 05-Nov-2020

Further information The information contained in this safety data sheet is deemed sufficient to allow the user to take all necessary operational control and risk mitigation measures to allow safe use of the product.
In the event of any further questions regarding use conditions for this product please contact the address in section 1.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet