

This safety data sheet was created pursuant to the requirements of: GHS: The Globally Harmonized System of Classification and Labeling of Chemicals

AQUALINE DWV CEMENT

Revision Number 1.02

Revision date 17-Jun-2021 Supersedes Date: 29-Oct-2017

1. Identification

Product identifier	
Product Name	AQUALINE DWV CEMENT
Pure substance/mixture	Mixture

Details of the supplier of the safety data sheet

Responsible Party	Manufacturer
Bostik New Zealand Limited	Bostik New Zealand Limited
19 Eastern Hutt Road Wingate,	19 Eastern Hutt Road Wingate,
Lower Hutt, New Zealand	Lower Hutt, New Zealand
Tel: 04-567 5119	Tel: 04-567 5119
Fax: 04-567 5412	Fax: 04-567 5412
E-mail address	SDS.AP@Bostik.com
Emergency telephone number Emergency Telephone	24 Hr: 0800 243 622 +64 4 917 9888 Poison Centre : 0800 764 766
Recommended use of the chemica	<u>I and restrictions on use</u>
Recommended use	Adhesive
Restrictions on use	No information available

2. Hazard(s) identification

Classification of the substance or mixture

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 (6.1D)
Skin corrosion/irritation	Category 2 (6.3A)
Serious eye damage/eye irritation	Category 1 (8.3A)
Skin sensitization	Category 1 (6.5B)
Specific target organ toxicity - Single exposure	Category 3 (^f)
Flammable liquids	Category 2 (3.1B)

Classification in parenthesis is applicable for New Zealand Hazard Classification

Label elements



Signal word

Danger

Hazard statements

- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H332 Harmful if inhaled
- H336 May cause drowsiness or dizziness
- H225 Highly flammable liquid and vapor

AQUALINE DWV CEMENT

Revision Number 1.02

Revision date 17-Jun-2021 Supersedes Date: 29-Oct-2017

Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

P264 - Wash face, hands and any exposed skin thoroughly after handling

P272 - Contaminated work clothing should not be allowed out of the workplace

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P233 Keep container tightly closed

P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment

- P240 Ground/bond container and receiving equipment
- P242 Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P235 - Keep cool

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

Response

Inhalation

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

P312 - Call a POISON CENTER or doctor if you feel unwell

Skin

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower P363 - Wash contaminated clothing before reuse

Eyes

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

Fire

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards

May be harmful if swallowed May be harmful in contact with skin In use, may form flammable/explosive vapor-air mixture

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%
Acetone	67-64-1	20- <40
Methyl ethyl ketone	78-93-3	20- <40
Cyclohexanone	108-94-1	20- <40
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW	25068-38-6	0.1- <1

*** Any remaining ingredients are not hazardous

4. First-aid measures

Description of necessary first aid measures

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

Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed

AQUALINE DWV CEMENT Revision Number 1.02	Revision date 17-Jun-2021 Supersedes Date: 29-Oct-2017
	or concerned: Get medical advice/attention. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.
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. Get immediate medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.
<u>Most important symptoms/effects</u> acute and delayed Symptoms	Burning sensation. Itching. Rashes. Hives. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing. Difficulty in breathing.
For emergency responders 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 contact with skin, eyes or clothing. Avoid breathing vapors or mists.
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.

5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.
Unsuitable extinguishing media	No information available.
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. Product is or contains a sensitizer. May cause sensitization by skin contact.
Hazardous combustion products	Carbon oxides. Hydrogen chloride.

Special protective actions for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

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 vapors or mists.

AQUALINE DWV CEMENT	Revision date 17-Jun-2021	
Revision Number 1.02	Supersedes Date: 29-Oct-2017	
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.	
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.	

Methods and material for

containment and cleaning up

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff 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. Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

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

7. Handling and storage

Precautions for safe handling

Use personal protection equipment. Avoid breathing vapors 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. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse.

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. See Section 8 for information on appropriate personal protective equipment

Conditions for safe storage,

including any incompatibilities

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 labeled 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. Protect from moisture.

Incompatible materials

Strong acids Strong bases Strong oxidizing agents

8. Exposure controls/personal protection

Occupational exposure limits

Chemical name	New Zealand	Australia	European Union
Acetone	TWA: 500 ppm	500 ppm TWA	TWA: 500 ppm
67-64-1	TWA: 1185 mg/m ³	1185 mg/m ³ TWA	TWA: 1210 mg/m ³
	STEL: 1000 ppm	1000 ppm STEL	
	STEL: 2375 mg/m ³	2375 mg/m ³ STEL	
Methyl ethyl ketone	TWA: 150 ppm	150 ppm TWA	TWA: 200 ppm
78-93-3	TWA: 445 mg/m ³	445 mg/m ³ TWA	TWA: 600 mg/m ³
	STEL: 300 ppm	300 ppm STEL	STEL: 300 ppm
	STEL: 890 mg/m ³	890 mg/m ³ STEL	STEL: 900 mg/m ³
Cyclohexanone	TWA: 25 ppm	25 ppm TWA	TWA: 10 ppm
108-94-1	TWA: 100 mg/m ³	100 mg/m ³ TWA	TWA: 40.8 mg/m ³
	Skin	-	STEL: 20 ppm
			STEL: 81.6 mg/m ³
			*

Chemical name	ACGIH TLV	NIOSH	OSHA PEL
Acetone 67-64-1	STEL: 500 ppm TWA: 250 ppm	IDLH: 2500 ppm TWA: 250 ppm	TWA: 1000 ppm TWA: 2400 mg/m ³
07-04-1	1 WA. 250 ppm	TWA: 590 mg/m ³	(vacated) TWA: 750 ppm
			(vacated) TWA: 1800 mg/m ³
			(vacated) STEL: 2400 mg/m ³

AQUALINE DWV CEMENT Revision Number 1.02

Revision date 17-Jun-2021 Supersedes Date: 29-Oct-2017

			The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors. (vacated) STEL: 1000 ppm
Methyl ethyl ketone 78-93-3	STEL: 300 ppm TWA: 200 ppm	IDLH: 3000 ppm TWA: 200 ppm TWA: 590 mg/m ³ STEL: 300 ppm STEL: 885 mg/m ³	TWA: 200 ppm TWA: 590 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 590 mg/m ³ (vacated) STEL: 300 ppm (vacated) STEL: 885 mg/m ³
Cyclohexanone 108-94-1	STEL: 50 ppm TWA: 20 ppm S*	IDLH: 700 ppm TWA: 25 ppm TWA: 100 mg/m³	TWA: 50 ppm TWA: 200 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 100 mg/m ³ (vacated) S*

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration No information available **(PNEC)**

Engineering controls

Ensure adequate ventilation, especially in confined areas. Vapors/aerosols must be exhausted directly at the point of origin.

Individual protection measures, such as personal protective equipment

Eye/face protection Hand protection	Tight sealing safety goggles. Face protection shield. Wear protective gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature.
Skin and body protection	Antistatic footwear. Wear fire/flame resistant/retardant clothing. Gloves made of plastic or rubber. Suitable protective clothing. Apron.
Respiratory protection	In case of inadequate ventilation wear respiratory protection. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
Recommended filter type:	Organic gases and vapors filter conforming to EN 14387.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Paste Liquid	
Color	Clear, colorless	
Physical state	Liquid	
Odor	Solvent	
Odor threshold	No information available	

Property pH pH (as aqueous solution) Melting point / freezing point Initial boiling point and boiling	Values No data available No data available No data available 66 °C
range	
Flash point	-15 °C
Evaporation rate	No data available
Flammability	No data available
Flammability Limit in Air	
Upper flammability or explosive	10.9
limits	
Lower flammability or explosive	1.7
limits	
Vapor pressure	No data available

Remarks • Method Not applicable Insoluble in water

AQUALINE DWV CEMENT Revision Number 1.02

Relative vapor density Relative density Water solubility Solubility(ies) Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity	No data available No data available partially soluble No data available No data available 321 °C No data available No data available No data available
Additional information Oxidizing properties Solid content (%) Density	No information available approx 22 0.9 g/cm ³
10. Stability and read	ctivity
Stability	Stable under normal conditions

<u>Stability</u>	Stable under normal conditions.
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Yes.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks. Excessive heat. Protect from moisture.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.
Hazardous decomposition products	None known based on information supplied.

11. Toxicological information

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.
Symptoms	Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing.

Acute Toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	4,866.30 mg/kg
ATEmix (dermal)	3,487.20 mg/kg
ATEmix (inhalation-dust/mist)	4.76 mg/l

AQUALINE DWV CEMENT Revision Number 1.02

ATEmix (inhalation-vapor) 34.90 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone	=5800 mg/kg (Rattus)	>15800 mg/Kg (Rattus)	=79 mg/l(Rattus) 4 h
Methyl ethyl ketone	=2483 mg/kg (Rattus)	= 5000 mg/kg (Oryctolagus cuniculus)	=11700 ppm (Rattus) 4 h
Cyclohexanone	=1535 mg/kg (Rattus)	= 947 mg/kg (Oryctolagus cuniculus)	=8000 ppm (Rattus) 4 h
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW	LD50 (Rattus) > 2000 mg/kg OECD 420	>2000 mg/Kg (Rattus)	-

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 burns. Risk of serious damage to eyes.

Component Information					
Methyl ethyl ketone (78-9	93-3)				
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye			irritant
Acute Eye					
Irritation/Corrosion					

Respiratory or skin sensitization May cause sensitization by skin contact.

Component Information			
Acetone (67-64-1)			
Methyl ethyl ketone (78-93-3)			
Method	Species	Exposure route	Results
OECD Test No. 406: Skin	Guinea pig	Dermal	No sensitization responses
Sensitization			were observed

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	China	IARC
Cyclohexanone	-	Group 3

Legend

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	Based on available data, the classification criteria are not met.

AQUALINE DWV CEMENT Revision Number 1.02

Revision date 17-Jun-2021 Supersedes Date: 29-Oct-2017

Target organ effects Aspiration hazard Central nervous system. Eyes. Kidney. Liver. Respiratory system. Skin. Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
Acetone	-	LC50 96 h 4.74 - 6.33 mL/L (Oncorhynchus mykiss)	EC50 48 h 10294 - 17704 mg/L (Daphnia magna Static)
Methyl ethyl ketone	EC50=1972 mg/l (Pseudokirchneriella subcapitata)	LC50: 3130 - 3320mg/L (96h, Pimephales promelas)	EC50 48 h > 308 mg/L (Daphnia magna)
Cyclohexanone	EC50: =20mg/L (96h, Chlorella vulgaris)	LC50 96 h 481 - 578 mg/L (Pimephales promelas flow-through)	EC50: =800mg/L (24h, Daphnia magna)
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW	EC50 (72h) = 9.4 mg/L (Scenedesmus capricornutum) EPA-660/3-75-009	1.2 mg/l 96Hr (Oncorhynchus mykiss)	2.7 mg/l 48hr Daphia Magna

Persistence and degradability No information available.

Bioaccumulative potential There is no data for this product.

Component Information

Chemical name	Partition coefficient
Acetone	-0.24
Methyl ethyl ketone	0.3
Cyclohexanone	0.86
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW	3.26

Chemical name	PBT and vPvB assessment
Acetone 67-64-1	The substance is not PBT / vPvB
Methyl ethyl ketone 78-93-3	The substance is not PBT / vPvB
Cyclohexanone	The substance is not PBT / vPvB
108-94-1	PBT assessment does not apply
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW	The substance is not PBT / vPvB
25068-38-6	

Mobility in soil

No information available.

13. Disposal considerations

<u>Waste chemicals</u> 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

14. Transport information

IMDG

UN number or ID number UN proper shipping name UN1133 Adhesives

AQUALINE DWV CEMENT Revision Number 1.02

Description Transport hazard class(es) Packing group Marine pollutant Limited Quantity (LQ) EmS-No	UN1133, Adhesives, 3, II, (-15°C c.c.) 3 II NP 5 L F-E, S-D
IATA UN number or ID number	UN1133
UN proper shipping name	Adhesives
Description	UN1133, Adhesives, 3, II
Transport hazard class(es)	3
Packing group	
Special Provisions Limited Quantity (LQ)	A3 1 L
ERG Code	3L
ADR	
UN number or ID number	UN1133
Proper Shipping Name	Adhesives
Transport hazard class(es)	3 3
Packing group	II
Description	UN1133, Adhesives, 3, II, (D/E)
Limited Quantity (LQ)	5 L
Special Provisions Classification code	640C F1
Tunnel restriction code	(D/E)

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

15. Regulatory information	
National regulations	
ERMA Group	HSR002662

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. Other information

Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION		
TWA	TWA (time-weighted average)	
STEL	STEL (Short Term Exposure Limit)	
Ceiling	Ceiling Limit Value	
*	Skin designation	
SVHC	Substance(s) of Very High Concern	
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals	
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals	
STOT RE	Specific target organ toxicity - Repeated exposure	

AQUALINE DWV CEMENT Revision Number 1.02

STOT SE	Specific target organ toxicity - Single exposure
Prepared By	Product Safety & Regulatory Affairs
Revision date	17-Jun-2021
Revision note	The symbol (*) in the margin of this SDS indicates that this line has been revised.

Key literature references and sources for data used to compile the SDS New Zealand's Chemical Classification and Information Database (CCID) World Health Organization

Disclaimer

The information provided in this 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