

Revision date 17-Jun-2021

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

AQUAFIT CLEAR SOLVENT CEMENT

Revision Number 1.02 Supersedes Date: 29-Oct-2017

1. Identification

Product identifier

Product Name AQUAFIT CLEAR SOLVENT CEMENT

Pure substance/mixture Mixture

Details of the supplier of the safety data sheet

Responsible Party Manufacturer

Bostik New Zealand Limited
19 Eastern Hutt Road Wingate,
Lower Hutt, New Zealand
Tel: 04-567 5119

Bostik New Zealand Limited
19 Eastern Hutt Road Wingate,
Lower Hutt, New Zealand
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 chemical and restrictions on use

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

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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

Disposa

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

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or concerned: Get medical advice/attention. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.

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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.

Most important symptoms/effects,

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

Personal precautions

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

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.

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

Use personal protection recommended in Section 8. For emergency responders

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or **Environmental precautions**

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.

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/m³ 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	STEL: 500 ppm	IDLH: 2500 ppm	TWA: 1000 ppm
67-64-1	TWA: 250 ppm	TWA: 250 ppm	TWA: 2400 mg/m ³
		TWA: 590 mg/m ³	(vacated) TWA: 750 ppm
		_	(vacated) TWA: 1800 mg/m ³
			(vacated) STEL: 2400 mg/m ³

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			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/m³ STEL: 300 ppm STEL: 885 mg/m³	TWA: 200 ppm TWA: 590 mg/m³ (vacated) TWA: 200 ppm (vacated) TWA: 590 mg/m³ (vacated) STEL: 300 ppm (vacated) STEL: 885 mg/m³
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/m³ (vacated) TWA: 25 ppm (vacated) TWA: 100 mg/m³ (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 Tight sealing safety goggles. Face protection shield.

Hand protection 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

PropertyValuesRemarks • MethodpHNo data availableNot applicable Insoluble in water

pH No data available
pH (as aqueous solution)
No data available
Melting point / freezing point
No data available

Initial boiling point and boiling 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

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Relative vapor density
Relative density
Water solubility
Solubility(ies)
Partition coefficient

No data available partially soluble
No data available
No data available

Autoignition temperature 321 °C

Decomposition temperatureNo data availableKinematic viscosityNo data availableDynamic viscosityNo data available

Additional information

Oxidizing properties No information available

Solid content (%) approx 22 Density 0.9 g/cm³

10. Stability and reactivity

<u>Stability</u> Stable under normal conditions.

Sensitivity to mechanical

impact

Sensitivity to static discharge

None.

Yes.

Possibility of hazardous reactions None under normal processing.

<u>Conditions to avoid</u> 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

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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 (78-93-3)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye			irritant
Acute Eye					
Irritation/Corrosion					1

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.

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Target organ effects Central nervous system. Eyes. Kidney. Liver. Respiratory system. Skin.

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

<u>Persistence and degradability</u> 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 25068-38-6	The substance is not PBT / vPvB

Mobility in soil No information available.

13. Disposal considerations

Waste chemicals

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

<u>IMDG</u>

UN number or ID number UN1133 UN proper shipping name Adhesives

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Description UN1133, Adhesives, 3, II, (-15°C c.c.)

Transport hazard class(es)

Packing group

Marine pollutant
Limited Quantity (LQ)

EmS-No

S

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 II
Special Provisions A3
Limited Quantity (LQ) 1 L
ERG Code 3L

ADR

UN number or ID number UN1133
Proper Shipping Name UN1133

Transport hazard class(es) 3
Labels 3
Packing group ||

Description UN1133, Adhesives, 3, II, (D/E)

Limited Quantity (LQ) 5 L
Special Provisions 640C
Classification code 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 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

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STOT SE Specific target organ toxicity - Single exposure

Prepared By Product Safety & Regulatory Affairs

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Revision noteThe 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