

AQUA AERO VITAE PTY LTD
4 POLO ROAD, OBSERVATORY, CAPE TOWN
SOUTH AFRICA

EMERGENCY TELEPHONE No.: +27 21447 3954
TELEPHONE No.: +084 447 5544

1. PRODUCT IDENTIFICATION

TRADE NAME	U6050, PolyDadmac Blend U6050
ACTIVE INGREDIENT	Mixture of PolyDadmac (U6000), ACH (U3000)
CHEMICAL NAME	Mixture of polydiallyldimethylammonium Chloride and Aluminium Chlorohydrate
SYNONYMS	
CHEMICAL FAMILY	Cationic Polymer
CHEMICAL FORMULA	Mixture
CHEMICAL ABSTRACTS No.	26062-79-3 (U6000), 12042-91-0(ACH)
UN No.	3264 (ACH)
NIOSH No.	Not available
HAZCHEM CODE	

2. COMPOSITION

HAZARDOUS COMPONENTS

EEC CLASSIFICATION Not available

RISK PHRASES

R34: Causes burns.
R36: Irritating to eyes
R38: Irritating to skin

SAFETY PHRASES

S7/8: Keep container tightly closed and dry.
S28: After contact with skin, immediately wash with plenty of water.
S45: In case of accident or if you feel unwell, seek medical advice immediately and show label where possible.

3. HAZARD IDENTIFICATION

MAIN HAZARDS

Irritating to eyes, skin and respiratory system.

NEPA (704) HAZARD RATING

Fire: 0 Material that must be heated before ignition can occur.

Health: 0 Material which on exposure under fire conditions would offer no hazard beyond that of ordinary combustible material.

Reactivity: 0 Material which in themselves are normally stable even under fire exposure conditions and which are not reactive with water

CHEMICAL HAZARDS

BIOLOGICAL HAZARDS

HEALTH EFFECTS – EYES

An eye irritant, which may cause tear formation and blurred vision.

HEALTH EFFECTS - SKIN

Prolonged exposure may cause skin irritation

HEALTH EFFECTS - INGESTION

May cause nausea and vomiting.

HEALTH EFFECTS - INHALATION

Mist may irritate respiratory tract.

CARCINOGENICITY

No data available.

MUTAGENICITY

No data available

REPRODUCTIVE HAZARDS

No data available.

4. FIRST AID MEASURES

PRODUCT IN EYE

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 20 minutes, by the clock, holding the eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation persists, obtain medical attention immediately.

PRODUCT ON SKIN

Avoid direct contact with this chemical. Remove contaminated clothing, shoes, and leather goods (e.g. watchbands, belts) and wash with lukewarm, gently running water for at least 20 minutes. If irritation persists, obtain medical attention immediately. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

PRODUCT INGESTED

Do not induce vomiting. Drink water or milk if conscious. Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Obtain medical assistance immediately.

PRODUCT INHALED

Remove to fresh air Obtain medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Use water spray, carbon dioxide or dry chemical to extinguish fires.

SPECIAL HAZARDS

Use water to keep containers cool.

PROTECTIVE CLOTHING

Wear self-contained, positive breathing apparatus and full protective clothing

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Spills of this product are very slippery. Wear personal protection

ENVIRONMENTAL PRECAUTIONS

Do not dispose large volumes of any chemical into watercourses or sewers.

CLEAN-UP METHODS

Small Spills:

Scoop up as much as possible and then wash and scrub away with plenty of water to remove any residue. Spill may be neutralized with soda ash to pH between 6 and 9; this will liberate carbon dioxide gas.

Large Spills:

Seal off area and contain by diking with soil or other inert material. Recover as much as possible and then apply an inert material such as sawdust to absorb the remainder. Collect in suitable containers and then wash and scrub away the residue.

7. HANDLING AND STORAGE

STORAGE REQUIREMENTS

Store in a cool place out of direct sun and avoid sources of potential contamination.

HANDLING PRECAUTIONS

Keep drums tightly closed when not in use. Avoid contact with skin, eyes or clothing. Avoid breathing mist. Handle as a corrosive liquid.

SUITABLE MATERIALS

PVC, HDPE, PP, SS, PTFE, most rubbers.

UNSUITABLE MATERIALS

Mild steel, iron, copper, aluminium and alloys

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE STANDARDS

HSE	No data available
MAK	No data available)
ACGIH	TLV(TWA) No data available
	TLV(STEL) No data available

ENGINEERING CONTROL MEASURES

Local ventilation should be available if mists are encountered.

PERSONAL PROTECTION - RESPIRATORY

Unlikely route of exposure, if mists are encountered, use NIOSH approved respirator.

PERSONAL PROTECTION – HAND

Avoid contact with this chemical. Wear rubber gloves.

PERSONAL PROTECTION - EYE

Wear safety glasses with side shields at all times. Contact lenses should not be worn.

PERSONAL PROTECTION - SKIN

Wear overalls, safety shoes/boots and apron.

PERSONAL PROTECTION. - INGESTION

Restrict access to unauthorized persons. Wash hands after contact.

OTHER PROTECTION

A safety shower and eye wash facility should be nearby and ready for use.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear, viscous liquid.
ODOUR	Slight
pH	3.0-4.5
BOILING POINT/RANGE	95°C-100°C
MELTING POINT/RANGE	Not applicable
FLASH POINT	Not applicable
FLAMMABILITY	Not flammable
EXPLOSIVE PROPERTIES	Not applicable
OXIDISING PROPERTIES	None
VAPOUR PRESSURE	Similar to that of water
SPECIFIC GRAVITY	1.18-1.22@25°C
VISCOSITY	<200cPs@25°C
% VOLATILE BY VOLUME	~70
EVAPORATION RATE	Similar to that of water
SOLUBILITY - WATER	Complete
SOLUBILITY - SOLVENT	

10. STABILITY AND REACTIVITY

STABILITY

Stable

CONDITIONS TO AVOID

Do not mix with other chemicals.

INCOMPATIBLE MATERIALS

Strong oxidizing agents. This product will corrode iron, copper and aluminium

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, ammonia, oxides of nitrogen and/or hydrogen chloride.

POLYMERIZATION

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

SKIN AND EYE CONTACT

Moderate skin and eye irritant

CHRONIC TOXICITY

Mists may irritate respiratory tract if exposure is prolonged.

CARCINOGENICITY

No data available

MUTAGENICITY

No data available

REPRODUCTIVE HAZARDS

No data available

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY - FISH	No data available
AQUATIC TOXICITY - DAPHNIA	No data available
AQUATIC TOXICITY - ALGAE	No data available
BIODEGRADABILITY	No data available
BIO-ACCUMULATION	No data available
MOBILITY	No data available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Disposal must be made in accordance with the applicable government regulations at approved chemical dumpsites

DISPOSAL OF PACKAGING

Containers, even those that have been emptied, will retain product residue and vapours, handle empty containers as if they were full. Always obey hazard warnings

14. TRANSPORT INFORMATION

UN No.	3264 (ACH)
SUBSTANCE IDENTITY No.	
ADR/RID CLASS	Not available
IMDG - SHIPPING NAME	9
IMDG - CLASS	
IMDG - PACKAGING GROUP	Not available
IATA - SHIPPING NAME	ACHD65
IATA - CLASS	9

15. REGULATORY INFORMATION

EEC HAZARD CLASSIFICATION**RISK PHRASES**

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NATIONAL LEGISLATION

Hazardous Substances Act 15 of 1973 and Regulations,
Occupational Health and Safety Act 85 of 1993,

16.**OTHER INFORMATION**

CAS No.	26062-79-3 (U6000),12042-91-0(ACH)
EINECS No.	Not available
EEC ANNEX 1 No.	Not available

APPENDIX

MSDS PREPARATION DATE	2013-03-20
MSDS SERIAL No.	MSDS 047/R0
COMPILED BY	HH MARINGA

APPROVED BY	RSV COLE (Technical Director)
DATE OF APPROVAL	2013-03-22

SOURCES OF INFORMATION

1. Previous versions of the Hazard Data Sheets for this product.
2. MSDS - Canadian Centre for Occupational Health and Safety

EXCLUSION OF LIABILITY

"All information and instructions provided in this Material Safety Data Sheet ("MSDS") in respect of the substance is given solely in terms of the provisions of the Occupational Health and Safety Act No 85 of 1993 and Regulations ("the Act"), is based on scientific and technical knowledge as at the date indicated on this MSDS, and is presented in good faith to be correct.

The information and instructions provided in this MSDS apply only to the substance in its present form and not to any formulation or mix, in which event it is the sole responsibility of the user of the substance as formulated and/or mixed to investigate and establish any danger which may arise out of its use, wherever such user may be situated.

It is the sole responsibility of the person in receipt of this MSDS, wherever such recipient may be situated, to ensure that the information provided is communicated to and understood by any person who may come in contact with the substance in any place and in any manner whatsoever. If such recipient produces

formulations or mixes using the substance, then it is such recipient's sole responsibility to comply with the provisions of the Act in respect of the provision of the necessary MSDS, or to comply with any other applicable legislation."