ITW Polymers & Fluids

SAFETY DATA SHEET

APPLIED ANTIFOAM

Infosafe No.: 1APGC
ISSUED Date : 27/03/2017
ISSUED by: ITW POLYMERS & FLUIDS

1. IDENTIFICATION

GHS Product Identifier
APPLIED ANTIFOAM

Product Code
A3481

Company Name
ITW POLYMERS & FLUIDS (ABN 63 004 235 063)

Address
100 Hassall Street Wetherill Park
NSW 2164 Australia

Telephone/Fax Number
Tel: 1800 063 511; +61 2 9757 8800
Fax: 1800 803 596; +61 2 9757 3855

Emergency phone number
1800 385 556 / 0438 465 960

E-mail Address
info@itwpf.com.au

Recommended use of the chemical and restrictions on use
Antifoam for general purposes.

Other Names

Name	Product Code
APPLIED 3481 ANTIFOAM	A3481

Disclaimer
*
Websites:
www.itwpf.com.au
*
Fluid Chemicals NZ
5A Andrew Baxter Drive, Airport Oaks, Auckland, 2150
Postal Address: P.O. Box 201185 , Auckland Airport, 2150, New Zealand
EMERGENCY TEL: 0800 154 666

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture
Not classified as hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals GHS
Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road & Rail
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Signal Word (s)
NOT APPLICABLE

Hazard Statement (s)
Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Polydimethylsiloxane	63148-62-9	10 %
Proprietary Emulsifiers	Not available	0-10 %
Water	7732-18-5	Balance

4. FIRST-AID MEASURES

Inhalation
No emergency care anticipated.

Ingestion
Rinse mouth with water, then give water to drink. Do NOT induce vomiting. Seek medical assistance.

Skin
Remove contaminated clothing and wash affected skin with soap and water.
If irritation occurs seek medical advice.

Eye contact
Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open.
Seek medical advice if effects persist.

Advice to Doctor
Toxicology studies have shown these materials to be of very low acute toxicity. There is no specific antidote. Treatment of over-exposure should be directed to the control of symptoms and the clinical condition.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
In case of fire in surroundings: all extinguishing agents allowed.

Hazards from Combustion Products
After evaporation of water, residue can burn to produce carbon dioxide and oxides of silicon.

Special Protective Equipment for fire fighters
No special fire-fighting clothing is necessary on account of this product. However proper protective equipment should be worn when approaching a fire.

Specific Hazards Arising From The Chemical
Non combustible.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures
Slippery when spilt. Evacuate all unnecessary personnel from area. Stop leak if safe to do. Prevent product from entering waterways, drains or sewers.

Methods And Materials For Containment And Cleaning Up
Contain and use absorbent material (sand, soil or other inert material) to soak up spill. Place in clearly labelled containers for disposal.

Personal Protection
Refer to Section 8: Personal Protective Equipment.

7. HANDLING AND STORAGE

Precautions for Safe Handling
When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities
Store in cool place and out of direct sunlight.
Keep containers securely sealed and protected against physical damage.
Ensure containers are clearly labelled.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values
No Exposure Limit Established

Biological Limit Values
No biological limit values allocated to this product or its ingredients.

Appropriate Engineering Controls
General room ventilation is satisfactory.

Personal Protective Equipment
It is recommended that safety glasses, PVC or rubber gloves and non-slip boots are worn when handling the concentrate.

Hygiene Measures
Wash contaminated clothing and/or protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
An opaque white, slightly viscous liquid emulsion with no distinct odour.

Melting Point
<0°C

Boiling Point
approx 100°C

Specific Gravity
1.00 at 20°C

pH
As supplied 6.0 ± 0.5 1% soln 6.0 ± 0.5

Vapour Pressure
18 mm Hg at 20°C

Viscosity
1500cps @25 degrees Celsius

Flash Point
Non flammable

Flammability
Non combustible. Non flammable.

Flammable Limits - Lower
Not Required

10. STABILITY AND REACTIVITY

Chemical Stability
Stable under normal conditions of use.

Conditions to Avoid
No data.

Incompatible materials
Store away from oxidisers

Hazardous Decomposition Products
At temperatures above 150ºC a small amount of formaldehyde is released through oxidation. This applies to the silicone content of the product.

11. TOXICOLOGICAL INFORMATION

Ingestion
Practically non-harmful.
Ingestion can result in nausea.

Inhalation
Non-harmful by inhalation.

Skin
Practically non-harmful.
None currently known.
Prolonged contact may cause very slight irritation.

Eye
Practically non-harmful.
None currently known.

Chronic Effects
None currently known.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Not expected to be toxic to aquatic organisms at the recommended concentrations of use.

Persistence and degradability
For the active ingredient - Polydimethylsiloxane (PDMS)
A number of studies have shown that PDMS will degrade into lower molecular weight compounds, primarily Me2Si(OH)2, when in contact with soils.

Environmental Fate
For the active ingredient - polydimethylsiloxane (PDMS)
If PDMS fluids should enter the aquatic environment, they attach to particulate matter and are removed from the water column by the natural
cleansing process of sedimentation. PDMS fluids do not partition back into the water column,and have no detectable Biological Oxygen Demand (BOD).
*
The ultimate fate of sludge-bound PDMS depends on the sludge disposal technique. If the sludge is incinerated, the silicone content converts to
amorphous silica, which presents no further environmental consequence when the ash is landfilled. When treated sludge is used as fertiliser, very small
levels of PDMS may be introduced to the soil environment, where it is subject to soil-catalyzed degradation. Similar soil-catalyzed degradation may
also occur if sludge-bound PDMS is landfilled. Overall, PDMS has shown no significant environmental effects.
*
Bioconcentration is not a significant concern with PDMS. Their molecular size renders them too large to pass through biological

membranes in fish or
other organisms. Specific testing has shown that PDMS is not toxic and does not bioaccumulate in sediment dwelling organisms or various terrestrial
species, including earthworms.

Acute Toxicity - Fish
LC50(Rainbow Trout) 96hr: >100mg/L

Acute Toxicity - Bacteria
EC50 >1000mg/L (from comparison with similar product)

Sewage Treatment
For the active ingredient - polydimethylsiloxane (PDMS)
PDMS fluids enter treatment systems as tiny dispersed droplets in wastewater. Because the water solubility of PDMS fluids is essentially nil,
they attach to suspended materials in wastewater systems and become a minor part of the sludge. Wastewater treatment monitoring and simulation
studies have confirmed that PDMS fluids which enter treatment facilities will be almost completely absent from the treated efffluent.
PDMS does not inhibit the microbial activity by which wastewater is treated. Test levels far exceeding those expected in the environment have shown no effect on the activated sludge process, other than the expected benefits of foam control. PDMS loadings had no effect on the operating parameters (pH, suspended solids, sludge volume index, and specific oxygen uptake) or physiological activity of the microflora in the model activated sludge units. Sludge digestion operating parameters (suspended solids, gas generation, pH) were also unaffected by loadings of up to 100 mg/kg of PDMS.

Other Information
Source for information in Sections Persistence & degradability, Environmental Fate, Sewage Treatment: An Overview of Polydimethylsiloxane (PDMS) Fluids in the Environment (Dow Corning 1998)

13. DISPOSAL CONSIDERATIONS

Waste Disposal
Recycle or dispose of in accordance with prevailing regulations, preferably to a recognised collector or contractor.

Product Disposal
Recycle or dispose of in accordance with prevailing regulations, preferably to a recognised collector or contractor.

Container Disposal
Rinse out container with water and dispose with drum or plastics recycler.

Special precautions for landfill or incineration
Normally suitable for disposal at an approved landfill.

14. TRANSPORT INFORMATION

Transport Information
Not dangerous for conveyance under ADG, UN, IMO, ADR/RID and IATA/ICAO codes.

U.N. Number
None Allocated

UN proper shipping name
None Allocated

Transport hazard class(es)
None Allocated

15. REGULATORY INFORMATION

Poisons Schedule
Not Scheduled

Australia (AICS)
All ingredients are listed.

16. OTHER INFORMATION

Date of preparation or last revision of SDS
Replaces SDS dated 21/1/2013

References
Australian Code for the Transport of Dangerous Goods by Road and Rail.
International Maritime Dangerous Goods Code.
International Air Transport Association Dangerous Goods Regulations.
Globally Harmonised System of Classification and Labelling of Chemicals,ST/SG/AC.10/30, United Nations 2003
Supplier Safety Data Sheets
LENGA, Robert E. (Ed.) 'Safety', The Sigma-Aldrich Library of Chemical Safety Data, Sigma-Aldrich Corporation, Edition II 1988.
MERCK INDEX - Merck & Company, Rahlway, N.J. 1989

Contact Person/Point
This Safety Data Sheet summarises at the date of issue to the best of our knowledge, the health and safety hazards of the product and how to safely handle and use the product.
As ITW Polymers & Fluids cannot anticipate or control the conditions under which the product is used, customers are encouraged, prior to usage, to assess and control the risks associated with their use of the product.
Data sheets from unauthorised sources may contain information that is no longer current or accurate.
This SDS is valid for 5 years from date of issue. However, this version may be revoked and revised at any time, and users should contact ITW Polymers & Fluids to ensure they are in possession of the latest version.

User Codes

User Title Label	User Codes
Field 2	CG 17.10.95

Signature of Preparer/Data Service
AMS

END OF SDS