VDAS-F3

Fluorine Free Foam

SAFETY DATA SHEET
According to Regulation 1907/2006/EC (REACH) 453/2010/EC and 830/2015/EC and 2020/878/EU

FIRE FIGHTING FOAM CLASS A, B / 0,5-1%

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier:

Trade name: VDAS-F3

Substance/Mixture: Mixture.

UFI: PD10-00C6-G00V-ERSA

1.2. Relevant identified uses of the substance or mixture and uses advised against:
Relevant uses: FFF Fluorine Free Foam Firefighting concentrate. For Industrial and professional use only. Dosage of use: 0,5-4% for use on Class A and B fires (hydrocarbon fires). At concentration recommended the product **IS NOT LISTED AS HAZARDS.**
Uses advise against: the product should not be used in ways other than those referred in relevant uses (see Section 7.3)

1.3. Details of the supplier of the safety data sheet:

Supplier:

Qtec Fire Services.
5 Buttonwood Place Willawong, Brisbane, AUSTRALIA.
4110 Tel: +61 7 3711 7544/ Fax: +61 7 3711 7433
www.qtecfire.com.au

E-mail compentaent person: info@qtecfire.com.au

1.4. Emergency telephone number:

+61 7 3711 7544 - Hours: 8:00 to 17:00
Monday to Friday (except holidays).

AUSTRALIA

Call the Poisons Information Centre with the MSDS of the product.

PHONE: 13 11 26

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture.

Classification according to Regulation (CE) No.1272/2008:

Foam concentrate 100%

AUSTRALIA

Local Supplier: Qtec Fire Services Pty Ltd
Telephone: 07 3711 7544
Email: info@qtecfire.com.au

Class	Category	Hazard statements	Hazard Pictograms	Classification method
Skin sensitization	Category 1	H317 – May cause an allergic skin reaction.	 GHS07	Calculation method
Eye Dam.	Category 1	H318 – Causes serious eye damage.	 GHS05	Calculation method

Dilution 0.5-4%

This dilution is classified as not hazardous according to regulation (EC) 1272/2008 (CLP).

2.1.1. Main physicochemical properties: Not flammable. Not explosive. Not combustion (see Section 9)

2.1.2. Stability and reactivity: May react with strong oxidizers. Don't use containers, pipes or fittings galvanized steel. Avoid using the product on the fire of metals, electrically energized equipment and contact with materials that react with water. Avoid temperatures outside the range prescribed storage (see Section 10).

2.1.3. Toxicological Information
Skin Contact: May cause allergic skin reaction.
Eye contact: Causes serious eye damage.

2.2. Label Elements.

Labelling according to Regulation (EC) No. 1272/2008. The product is labelled according to the CLP regulation.

Hazard pictograms:


GHS05


GHS07

Signal word: Danger

Hazardous ingredients:
(2-(2-butoxyethoxy)ethanol), Sulfuric acid, mono- C12-14 (even numbered)-alkyl esteres, compds. with triethanolamine, Hydroxide (carboxymethyl) dimethyl-3 - [(1-oxododecil) amino] propylammonium; 1-Propanaminium, N- (3-aminopropyl) -2-hydroxy-N, N-dimethyl-3-sulfo-, N- (C12-18 (also numbered) acyl) derivs., Hydroxides, internal salts; N-(2-hidroxietil)-N-[2-[(1-oxooctil)amino]etil]-ß-alanina; Sodium octyl sulfate

Hazard statements:

H317 – May cause an allergic skin reaction.
H318 – Causes serious eye damage.

Precautionary statements:

Prevention:

P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
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/physician.

2.3. Others hazards:

Results of PBT and vPvB assessment: Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) no. 1272/2008.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures of surfactants in aqueous solution.
Description: Mixture of the substances listed below.
Dangerous components:

Components	CAS EINECS REACH-No	Danger class CLP-Regulation (EC) 272/2008	Concentration range
(2-(2-butoxyethoxy)ethanol)	112-34-5 203-961-6 01-2119475104-44-xxxx	H319 Eye irrit. Cat. 2	20-25%
Sulfuric acid, mono-C12-14 (even numbered)-alkyl esters, compds. with triethanolamine	90583-18-9 939-265-0 01-2119970645-28-xxxx	H315 Skin irritat. Cat.2 H318 Eye dam. Cat. 1 H412 Acute Tox. Cat 3	1-9%
hydroxide (carboxymethyl) dimethyl-3 - [(1-oxododecil) amino] propylammonium	4292-10-8 224-292-6 01-2119487970-25-xxxx	H318 Eye dam. Cat. 1 H412 Acute Tox.Cat 3	1-5%
1-propanamine, N- (3-aminopropyl) -2- hydroxy-N, N-dimethyl- 3-sulfonate, N- (C8-18 (even number) acyl) derivs., Hydroxides, inner salts	939-455-3 01-2119970901-34-xxxx	H318 Eye dam.Cat. 1 H411 Long-term (chronic) aquatic hazard, Category 2	1-3%
N-(2-hidroxietil)-N-[2-[(1-oxooctil)amino]etil]-ß-alanina	64265-45-8 264-761-2 01-2120769114-55-xxxx	H317 Skin Sensitizer. Cat. 1 H319 Eye irrit. Cat. 2	1-3%
Sodium octyl sulfate	142-31-4 205-535-5 01-2119966154-35-xxxx	H315 Skin irritat. Cat. 2 H318 Eye dam. Cat. 1	1-3%

Non-Dangerous components: Amphoteric Surfactant (<2%), Polyglycol (<4%), Saccharides (<20%), corrosion inhibitor (<0.4%) and Water (<50%)

Additional information: VDASF3 does not contain any persistent organic chemicals such as fluorinated organic substances (PFAS). And any siloxane (D4,D5 and D6).
For the wording of the listed risk phrases refer to section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures.

If symptoms persist in case of doubt, seek medical advice with the MSDS of the product.

4.1.1. After Inhalation: Supply fresh air; get medical advice/attention if you feel unwell.

4.1.2. After Skin contact: May produce an allergic reaction. Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

4.1.4. After Swallowing: Rinse mouth with water. Spit liquid out again. Do not induce vomiting. Seek medical help.

4.2. Most important symptoms and effects, both acute and delayed.
May cause an allergic skin reaction. Serious damage to eyes.

4.3 Indication of any immediate medical attention and special treatment needed.
In the case of doubt or when malaise symptoms persist, seek for medical attention.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media.
Have emergency facilities or elements of action according to the local legislation.
The product is not combustible and does not support any combustion.
Use Water, foam, carbon dioxide or dry chemical.

5.2. Special hazards arising from the substance or mixture.
The combustion or the thermal decomposition of the product can generate carbon dioxide or carbon monoxide. The exposure to combustion products can be dangerous for the health.

5.3. Advice for fire fighters.
According the magnitude of the fire, it can be necessary the use of protection clothes for heat, independent respiratory equipment, gloves, protective goggles or facial mask and boots.
Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures.
Wear individual safety protection. Particular danger of slipping on leaked/spilled product.

6.2. Environmental precautions.
Avoid the contamination of the soil, drainage systems and superficial or underground water. In the case of a great spill, inform to the competent authorities according the local legislation.

6.3. Methods and material for containment and cleaning up.
Ensure adequate ventilation. Contain spill. Cover with absorbent material. Collect spilled material and place in a closed and identified container.

6.4. Reference to other sections.
See section 7 for information on safe handling.
See section 8 for information on personal protection equipment.
See section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling.
Comply with current legislation regarding Occupational Health and Safety. Avoid contact with eyes, skin or clothing. Avoid ingestion or inhalation. Avoid spill of the product and maintain remote of water drainage systems. Wash the hands after each use.

7.2. Conditions for safe storage, including any incompatibilities.
Store in original container or tanks designed for product storage, avoiding its evaporation and contamination with strange material. Store at temperatures between -15° C and 50° C.
Unsuitable material: Galvanised steel. Store away from foodstuffs. Store away from feed.
Refer to national regulations for storing hazardous chemicals.

7.3. Specific end use(s).

Firefighting foam concentrate. For professional use only.
Dosage of use: 0,5-4% for use on Class A and B fires (hydrocarbon fires) using low and medium expansion devices.
Observe handling instructions for preparing ready-to-use mixtures and for using the solutions.
Observe technical data sheet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters.

Components with limit values that require monitoring at the workplace: IOELV (European Union)

Components	CAS EINECS REACH-No	Long-term value	Short –term value
(2-(2-butoxyethoxy)ethanol)	112-34-5 203-961-6 01-2119475104-44-xxxx	10 ppm; 67 mg/m^3	15 ppm; 101 mg/m^3

8.2. Exposure controls.
The usual precautionary measures should be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

After skin contact, cleanse skin thoroughly.

After contact with eyes, rinse immediately.

8.2.1 Eye protection:

It is recommended to wear safety glasses with side shields and if risk of splashes and / or liquid projections use face shield (CE Category III).

8.2.2 Protection of hands:

Chemical resistant gloves (EN 374) (CE Category II).

8.2.3. Body protection:

It is recommended to use work clothes (CE Marking Category I) and non-slip safety footwear (CE Marking category II).

8.2.4. Breathing equipment:
Under normal conditions of use respiration protection should not be required. It is recommended to have room well-ventilated.
If unintentional release of substance, exceed the occupational exposure limit value: In case of brief exposure or low pollution use a respiratory filter device. In case of intensive or longer exposure use a respiratory protective device that is independent of circulating air.
Short term filter device (EN 149):
Filter A-P2
Breathing Equipment is only to be used in order to handle the residual risk of short-term jobs if all other risk minimizing measures have been carried out. E.g. retention and/or local exhaust.

8.2.5. Body protection:
It is recommended to use work clothes (CE Marking Category I) and non-slip safety footwear (CE Marking category II).

8.2.6. Environmental exposure controls:
Avoid spill of the product and the container to the environment (see Section 6). Handle according to the local normative and following good practice.

SECTION 9: PHISICAL AND CHEMICAL PROPERTIES

9.1. Physical and chemical properties.

Physical state: Liquid (Normal conditions of temperature and pressure – NTP – 20ºC/1atm)

Colour: Amber.

Odour: Characteristic.

Odour threshold: Not determined*.

Freezing point: ≤-17ºC (pressure 1atm).

Boiling range: 90-110°C (pressure 1atm).

Flammability: Mixture is not flammable.

Explosion limit: Not applicable*.

Flash point: Not applicable*.

Auto-ignition temperature: Mixture is not auto-ignition.

Decomposition temperature: Not determinate*.

pH-value: 8,0 ± 1,0 (20ºC)

Kinematic viscosity (mm2/s): ≤50 (20ºC)

Solubility: 100% (20ºC).

Partition coefficient n/octanol/water: Not determinate*.

Vapour pressure: Not determinate*.

Relative density: 1,092 ± 0,01g/cm3 (20ºC).

Relative vapour density: Not determinate*.

*Not relevant due to the nature of the product, not providing information characteristic of its hazardous.

9.2. Additional Information: No further relevant information availed.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

It can react with strong oxidants.

10.2. Chemical stability:

Stable in common environmental conditions and in the above-mentioned range of temperature during its storage and manipulation.

10.3. Possibility of hazardous reactions:

No dangerous reactions known.

10.4. Conditions to avoid:

Temperatures: <-15ºC, >+50ºC.

10.5. Incompatible materials:

Not use containers, pipes or accessories of galvanized steel. Avoid use of products on burning metals, electrically-energized equipment and contact with strong oxidants and water reactive materials.

10.6. Hazardous decomposition products:

No hazardous decomposition products if instructions for storage and handling are followed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects: Data no available for the product itself:

Components	ORAL - OECD 401 LD50	DERMAL - OECD 402 LD50	INHALATION IRT
(2-(2-butoxyethoxy)ethanol)	2410 mg/kg bw (rat)	2764 mg/kg bw (rabbit)	>29ppm/2hours
Sulfuric acid, mono-C12-14 (even numbered)-alkyl esters, compds. with triethanolamine	>5000 mg/kg (rat)	Not available	not available
Sodium octyl sulfate	>2.000 mg/kg (rat) rattus norvegicous	<2.000mg/Kg (rabbit)	not available
hydroxide (carboxymethyl) dimethyl-3 - [(1-oxododecil) amino] propylammonium	>5000 mg/kg (rat)	>5000 mg/kg (rat)	not available
1-propanamine, N- (3-aminopropyl) -2-hydroxy-N, N-dimethyl-3-sulfonate, N- (C8-18 (even number) acyl) Derivatives., Hydroxides, inner salts	>2950 mg/kg (rat)	>2000 mg/kg (rat)	not available
N-(2-hidroxietil)-N-[2-[(1-oxooctil)amino]etil]-ß-alanina	>2000 mg/kg (rat)	>2000 mg/kg (rat)	not available

a) Acute toxicity: Based on available data, the classification criteria are not met. (Calculation method).

b) Skin corrosion/irritation: Based on available data, the classification criteria are not met. (Calculation method).

c) Serious eye damage/irritation: Data no available for the product itself. Based on available data, classified as "H318 - Causes serious eye damage" according to EC Regulation 1272/2008 (CLP). (Calculation method).
d) Respiratory or skin sensitization: Data no available for the product itself. Based on available data, classified as “H317 - May produce an allergic reaction” according to EC Regulation 1272/2008 (CLP). (Calculation method).
e) Germ cell mutagenicity: Based on available data, the classification criteria are not met. (Calculation method).
f) Carcinogenicity: Based on available data, the classification criteria are not met. (Calculation method).
g) Reproductive toxicity: Data no available for the product itself. Based on available data, the classification criteria are not met. (Calculation method).
h) STOT-single exposure: Based on available data, the classification criteria are not met. (Calculation method).
i) STOT-repeated exposure: Based on available data, the classification criteria are not met. (Calculation method).
j) Aspiration hazard: Based on available data, the classification criteria are not met. (Calculation method).

11.2. Information on other hazards: Mixture does not contain substances identified as endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

AQUATIC TOXICITY

Test	VDASF3 concentrate EC_{50}	VDASF3 0,5% solution EC_{50}	Test information
Acute fish toxicity	24,2mg/l, 96h	4840mg/l, 96h	Zebrafish eggs (Danio rerio) Test according to OECD 236
Acute daphnia toxicity	>100mg/l, 48h	>20000mg/l, 48h	Daphnia magna Test according to OECD 202
Acute algae toxicity	63,2mg/l, 72h (E_rC_{50})	12640mg/l, 72h (E_rC_{50})	Desmodesmus subspicatus Test according to OECD 201

WASTEWATER ANALYSIS

Test	VDASF3	VDASF3 concentrate 0,5% solution	Test information
Chemical oxygen demand (COD)	800 000mg O_2/l	4000mg O2/l	DIN 38409 (H41)
Biochemical oxygen demand at 5 days (BOD_5)	480000mg O_2/l	2400mg O2/l	DIN EN 1899 (H51)
Biochemical oxygen demand at 28 days (BOD_{28})	580000mg O_2/l	2900mg O2/l	DIN EN ISO 9408 (L22)

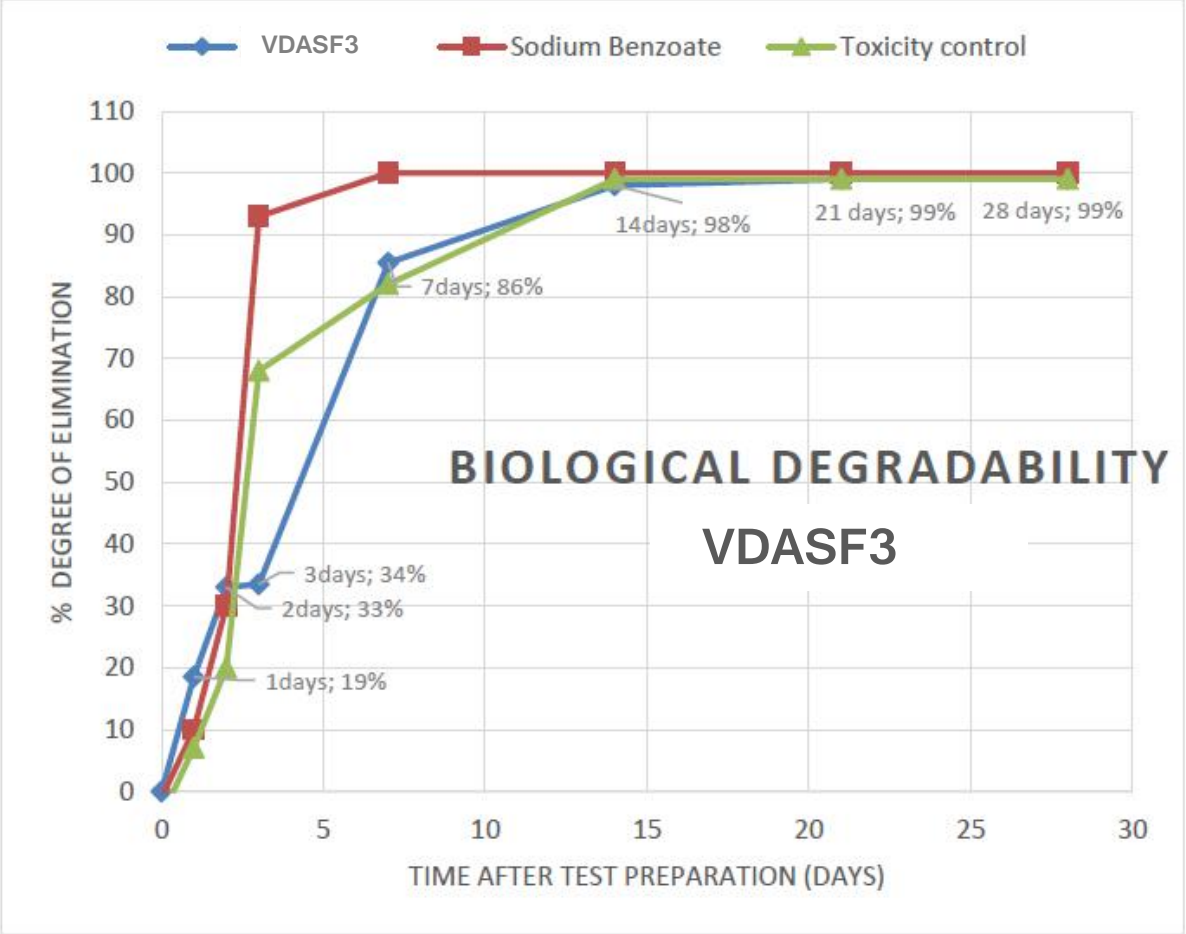
Test	VDASF3 concentrate EC_{10}	VDASF3 dilution 0,5% EC_{10}	Test information
Acute fish toxicity	16,4mg/l, 96h	3280mg/l, 96h	Zebrafish eggs (Danio rerio) Test according to OECD 236
Acute daphnia toxicity	78,8mg/l, 48h	15760mg/l, 48h	Daphnia magna Test according to OECD 202

Acute daphnia toxicity	78,8mg/l, 48h	15760mg/l, 48h	Daphnia magna Test according to OECD 202
Acute algae toxicity	1,5mg/l, 72h (E_rC_{10})	300mg/l, 72h (E_rC_{10})	Desmodesmus subspicatus Test according to OECD 201

LABORATORY: SYNLAB – GERMANY (Test report no.: ULE-18-0128322/01-1 – Date: 11.12.2018)

12.2. Persistence and degradability.
VDASF3 does not contain persistent organic substances, 99% biodegradable in 21 days.

VDASF3 Readily biodegradable.
Biodegradability test according to EN ISO 9888 (L25) (Zahn-Wellens-Test)
Result: After 21 days, a degree of elimination of 99% was determinate using this approach.



LABORATORY: SYNLAB – GERMANY (Test report no.: ULE-18-0128322/01-1 – Date: 11.12.2018)

12.3. Bio accumulative potential.
Data no available for the product itself.
No chronic toxicity effects are expected to results in long-term biopersistence, bioaccumulation, bioconcentration, biomagnification.

12.4. Mobility in soil.
Avoid the contamination of the soil and water: If surfactants mixture penetrate soil, it will be mobile and may contaminate groundwater and surface water.

12.5. Results of PBT and vPvB assessment.
Components of the mixture are not expected to be persistent, bioaccumulating nor toxic (PBT).
Components of the mixture are not expected to be very persistent not very bioaccumulating (vPvB).

The organic components of this product are non-persistent biodegradable materials and it does not contain any fluorinated organic compounds or other persistent organic pollutants.

VDASF3 is a fluorine-free fire fighting foam concentrate. TOP Assay results (TOP – Total Oxidizable Precursor):

TOP-A: Perfluoroalkyl Sulfonic Acids
Perfluorobutane sulfonic acid (PFBS) < 0,02*mg/Kg.
Perfluoropentane sulfonic acid (PFPeS) < 0,02*mg/Kg.
Perfluorohexane sulfonic acid (PFHxS) < 0,02*mg/Kg.
Perfluoroheptane sulfonic acid (PFHpS) < 0,02*mg/Kg.
Perfluorooctane sulfonic acid (PFOS) < 0,02*mg/Kg.
Perfluorodecane sulfonic acid (PFDS) < 0,02*mg/Kg.

TOP-B: Perfluoroalkyl Carboxylic Acids
Perfluorobutanoic acid (PFBA) < 0,1**mg/Kg.
Perfluoropentanoic acid (PFPeA) < 0,02*mg/Kg.
Perfluorohexanoic acid (PFHxA) < 0,02*mg/Kg.
Perfluoroheptanoic acid (PFHpA) < 0,02*mg/Kg.
Perfluorooctanoic acid (PFOA) < 0,02*mg/Kg.
Perfluorononanoic acid (PFNA) < 0,02*mg/Kg.
Perfluorodecanoic acid (PFDA) < 0,02*mg/Kg.
Perfluoroundecanoic acid (PFUnDA) < 0,02*mg/Kg.
Perfluorododecanoic acid (PFDoDA) < 0,02*mg/Kg.
Perfluorotridecanoic acid (PFTrDA) < 0,02*mg/Kg.
Perfluorotetradecanoic acid (PFTeDA) < 0,05***mg/Kg.
Perfluorooctane sulfonamide (FOSA) < 0,02*mg/Kg.

TOP-C: Perfluoroalkyl Sulfonamides
N-Methyl perfluorooctane sulfonamide (MeFOSA) < 0,02*mg/Kg.
N-Ethyl perfluorooctane sulfonamide (EtFOSA) < 0,05***mg/Kg.
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE) < 0,05***mg/Kg.
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE) < 0,05***mg/Kg.
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA) < 0,02*mg/Kg.
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA) < 0,02*mg/Kg.

TOP-D: Fluorotelomer Sulfonic Acids
4:2 Fluorotelomer sulfonic acid (4:2 FTS) < 0,05***mg/Kg.
6:2 Fluorotelomer sulfonic acid (6:2 FTS) < 0,05***mg/Kg.
8:2 Fluorotelomer sulfonic acid (8:2 FTS) < 0,05***mg/Kg.
10:2 Fluorotelomer sulfonic acid (10:2 FTS) < 0,05***mg/Kg.

TOP-P: PFAS Sums
Sum of PFHxS and PFOS < 0,02*mg/Kg.

Sum of TOP C7-C14 as fluorine < 0,02*mg/Kg.

*LOR (Limit of reporting) = 0,02mg/Kg.
**LOR (Limit of reporting) = 0,1mg/Kg.
***LOR (Limit of reporting) = 0,05mg/Kg.

(Laboratory: ALS ENVIROMENTAL (Environmental Division Sydney) Date: 25-Sep-2017)

12.6. Others adverse effects.

Data no available for the product itself.

The substances contained in this mixture are not identified as endocrine disrupters. No adverse effects on the environment caused by endocrine disrupting properties shall be provided.

12.7. Others adverse effects.

Where possible prevent the release of foam and firewater to waterways.

The very rapid biodegradation and high Biochemical oxygen demand have the potential to deplete dissolved oxygen levels in waterways leading to acute oxygen stress and possible impacts on aquatic life, especially in enclosed waterways.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods.

Recommendations:

If a spill occurs: Contain spill. Cover with absorbent material. Collect spilled material and place in a closed and identified container.

In the case of a great spill, it can create copious quantities of foam: inform to the competent authorities according the local legislation.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system unless authorised by agreement with the wastewater treatment plant operator. Must be recycled or disposed of according to the applicable regulations. Waste has to be classified according to the European Waste catalogue based on the identification of the waste generating source.

Wastewaters may also be able to be treated on site to biodegrade (if local authority waste regulations allow) by holding in ponds and/or irrigation to ground according to quantity and contaminants other than foam.

EWC waste code: 160305 organic wastes containing dangerous substances.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water; if necessary, with cleansing agents.

SECTION 14: TRANSPORT INFORMATION

This mixture is not regulated for transport:

- **ADR (Road):** Non-dangerous.
- **RID (Railway):** Non-dangerous.
- **IMDG (Sea):** Non-dangerous.
- **IATA (Airplane):** Non-dangerous.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.
Regulation (EC) No 1272/2008.
Regulation (EC) No 850/2004 (PFOS).
Regulation (EC) No 1000/2017 (PFOA).
Regulation (EC) 2019/1021 (Persistent organic pollutants - Perfluorooctane sulfonic acid and its derivatives (PFOS) C8F17SO2X (X = OH, Metal salt (O-M+), halide, amide, and other derivatives including polymers.

VDASF3 firefighting foams are in compliance European Regulation 1000/2017/EC of 13 June 2017 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) as regards perfluorooctanoic acid (PFOA), its salts and PFOA-related substancesMust comply with local legislation on occupational risk prevention and environment.

Must comply with local legislation on occupational risk prevention and environment.

AICS (Australian Inventory of Chemical Substances

Australian HVICL (High Volume Industrial Chemicals List)

National Occupational Health and Safety

Commision (NOHSC) Approved Criteria for Classifying Hazardous Substances

NICNAS Priority Existing Chemical (PEC)

NPI (National Pollutant Inventory)

VDASF3 is a fluorine-free and Siloxane-free firefighting foam concentrateVDASF3

VDASF3 does not contain any fluorinated organic substances and complies with the Queensland Firefighting Foam Policy fluorine-free foam limits.

15.2. Chemical safety assessment.

A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP):

H317 – Skin Sensib. 1: Calculation method.

H318 – Eye Dam. 1: Calculation method.

16.1. Revisions.
Current Version: 17.A (Australia)
Replaces version dated: 02/04/2020
Revision date: 19/03/2021
Changes: All document (Regulation 2020/878/EU).

16.2. Legislation on Safety materials sheets.

This Safety Data Sheet has been developed according at Regulation (EC) No 1272/2008, 453/2010/EC, 830/2015/EC and 2020/878/EU.

16.3. Relevant phrases

H315 – Causes skin irritation.

H317 – May cause an allergic skin reaction.

H318 – Causes serious eye damage.

H319 – Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

16.4. Abbreviations and acronyms
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.
IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.
UFI: Unique Formula Identifier.

16.5. Sources
http://echa.europa.eu
http://eur-lex.europa.eu

Minimal training is recommended in the prevention of occupational hazards to personnel who will handle this product, to facilitate the understanding and interpretation of this safety data sheet and product labelling.