

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 15/02/2016 Revision date: 17/03/2023 Supersedes version of: 16/04/2021

Version: 3.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : Respondol ATF 3/3
UFI : 6RE1-K080-000M-1S4C

Product code : FNC 05 21

Type of product : Firefighting foam concentrate (Fluorine Free)

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Firefighting foam concentrate

Use of the substance/mixture : Firefighting foam concentrate

Uses advised against No additional information available

1.3. Details of the supplier of the safety data sheet

ANGUS FIRE Ltd Station Road LA2 7NA Bentham - United Kingdom T +44(0) 1524 264000 - F +44(0)1524 264180

general.enquiries@angus.co.uk - www.angusfire.co.uk

1.4. Emergency telephone number

Emergency number : +44(0) 1524 264000 (Standard office hours: Monday to Friday 8:30am - 4:30pm GMT)

Contact person: EH&S Manager

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, protective clothing, protective gloves

P302+P352 - IF ON SKIN: Wash with plenty of water

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

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2.3. Other hazards

PBT: not relevant – no registration required vPvB: not relevant – no registration required

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2-propanediol substance with national workplace exposure limit(s) (GB)	(CAS-No.) 57-55-6 (EC-No.) 200-338-0 (REACH-no) 01-2119456809-23	4 – 10	Not classified
1-butoxy-2-propanol	(CAS-No.) 5131-66-8 (EC-No.) 225-878-4 (EC Index-No.) 603-052-00-8 (REACH-no) 01-2119475527-28	4 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Sulfuric acid, mono-C8-10 (even numbered)-alkyl esters, sodium salts	(CAS-No.) 85338-42-7 (EC-No.) 939-332-4 (REACH-no) 01-2119972287-26	1 – 4	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
Sodium laureth sulphate	(CAS-No.) 68891-38-3 (EC-No.) 500-234-8 (REACH-no) 01-2119488639-16	1 – 4	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
1-dodecanol	(CAS-No.) 112-53-8 (EC-No.) 203-982-0 (REACH-no) 01-2119485976-15	0.1 – 1	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
1-tetradecanol	(CAS-No.) 112-72-1 (EC-No.) 204-000-3 (REACH-no) 01-2119485910-33	0.1 – 1	Eye Irrit. 2, H319 Aquatic Chronic 1, H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Sulfuric acid, mono-C8-10 (even numbered)-alkyl esters, sodium salts	(CAS-No.) 85338-42-7 (EC-No.) 939-332-4 (REACH-no) 01-2119972287-26	(10 ≤C < 20) Eye Irrit. 2, H319 (20 ≤C < 100) Eye Dam. 1, H318
Sodium laureth sulphate	(CAS-No.) 68891-38-3 (EC-No.) 500-234-8 (REACH-no) 01-2119488639-16	(5 ≤C < 10) Eye Irrit. 2, H319 (10 ≤C < 100) Eye Dam. 1, H318

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1.	Description	At tiret aid	magelirac
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First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs:

Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : No specific measures are necessary. This product is a fire extinguishing medium.

Unsuitable extinguishing media : Not applicable.

5.2. Special hazards arising from the substance or mixtureFire hazard : No fire hazard.

5.3. Advice for firefighters

Firefighting instructions : Not applicable.

Protection during firefighting : Not applicable.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

8. Exposure controls/personal protection. 13. Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Wear recommended personal protective equipment. Read

and follow manufacturer's recommendations. Handle in accordance with good industrial hygiene and safety procedures. Read and follow the Safety Data Sheet (SDS) before use.

Hygiene measures : Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container tightly closed. Store at temperatures not exceeding

60°C (140°F) (intermittent). Protect from sunlight. Protect from freezing. Keep/Store away from

incompatible materials.

7.3. Specific end use(s)

Firefighting foam concentrate.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1,2-propanediol (57-55-6)		
United Kingdom	WEL TWA (OEL TWA) [1]	474 mg/m³ 10 mg/m³
United Kingdom	WEL TWA (OEL TWA) [2]	150 ppm

8.2. Exposure controls

Appropriate engineering controls:

Ensure adequate ventilation. Follow the exposure limits given on this material safety data sheet.

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Wear protective gloves (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.2 mm coating thickness

Eye protection:

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Sealed safety goggles

Skin and body protection:

Wear suitable protective clothing. Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment (recommended filter type A2/P2)



Thermal hazard protection:

Wear thermal protective clothing, when necessary.

Environmental exposure controls:

Contain spills. Prevent releases. Observe national regulations on emissions. Ensure all national/local regulations are observed.

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Yellow.
Odour : Characteristic.
Odour threshold : No data available

pH : 7-8

Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available

Freezing point : -6 °C

Boiling point : No data available

Flash point : $> 100 \, ^{\circ}\text{C}$

Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability : No data available : No data available Vapour pressure Relative vapour density at 20°C : No data available Relative density : No data available Density : 1.02 - 1.04 Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available : No data available Oxidising properties **Explosive limits** : No data available

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable and non reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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10.4. Conditions to avoid

Incompatible materials. Extremely high or low temperatures.

10.5. Incompatible materials

Alkali metals. Oxidizing agent. Water reactive substances.

10.6. Hazardous decomposition products

Carbon oxides. Sulphur oxides. Nitrogen oxides (NOx). Sodium oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

1-dodecanol (112-53-8)		
LD50 oral	8000 mg/kg bodyweight (24 h, Rabbit, Male / female, Experimental value, Oral)	
LD50 dermal rabbit	8000 – 12000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal)	
LC50 Inhalation - Rat	> 71 mg/l (1 h, Rat, Male / female, Experimental value of similar product, Inhalation (mist), 14 day(s))	
1-tetradecanol (112-72-1)		
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)	
LD50 dermal rabbit	8000 mg/kg bodyweight (24 h, Rabbit, Male / female, Experimental value, Dermal)	
LC50 Inhalation - Rat	> 1.5 mg/l air (1 h, Rat, Male / female, Experimental value, Inhalation (vapours))	
1-butoxy-2-propanol (5131-66-8)		
LD50 oral rat	3300 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))	
1,2-propanediol (57-55-6)		
LD50 oral rat	22000 mg/kg (Rat, Male / female, Experimental value, Oral)	
LD50 dermal rabbit	> 2000 mg/kg bodyweight (24 h, Rabbit, Experimental value, Dermal, 14 day(s))	
LC50 Inhalation - Rat	> 44.9 mg/l (4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 7 day(s))	
Sodium laureth sulphate (68891-38-3)		
LD50 oral rat	4100 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)	
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))	
Skin corrosion/irritation	: Causes skin irritation.	
	pH: 7 – 8	
Serious eye damage/irritation	: Causes serious eye irritation.	
	pH: 7 – 8	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity : Not classified		
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	

SECTION 12: Ecological information

12.1. Toxicity

Respondol ATF 3/3	
LC50 - Fish [1]	> 100 mg/l (96h; Brachydanio rerio)
EC50 - Crustacea [1]	139 mg/l (24h; Daphnia Magna)
EC50 - Crustacea [2]	100 mg/l (48h; Daphnia Magna)
ErC50 algae	348 mg/l (72h; Pseudokirchneriella subcapitata)
NOEC chronic algae	100 mg/l (72h; Pseudokirchneriella subcapitata)

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1-dodecanol (112-53-8)	
LC50 - Fish [1]	1.01 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	0.765 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	0.66 mg/l (Equivalent or similar to OECD 201, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
1-tetradecanol (112-72-1)	
LC50 - Fish [1]	> 1 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value)
EC50 - Crustacea [1]	3.2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value)
1-butoxy-2-propanol (5131-66-8)	
LC50 - Fish [1]	560 – 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Poecilia reticulata, Static system Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	> 1000 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 96h - Algae [1]	> 1000 mg/l (Other, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimenta value, GLP)
1,2-propanediol (57-55-6)	
LC50 - Fish [1]	40613 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value)
ErC50 algae	24200 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
Sodium laureth sulphate (68891-38-3)	
LC50 - Fish [1]	7.1 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Flow-through system,
EC50 - Crustacea [1]	Fresh water, Experimental value, GLP) 7.4 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static
	system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	27.7 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
2.2. Persistence and degradability	
Respondol ATF 3/3	
Paraistanas and dagradability	The product is readily biodegradeble
Persistence and degradability	The product is readily biodegradable.
Biochemical oxygen demand (BOD)	67.5 g O2/l (5 days)
Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)	67.5 g O2/l (5 days) 449.9 g O2/l
Biochemical oxygen demand (BOD)	67.5 g O2/l (5 days)
Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)	67.5 g O2/l (5 days) 449.9 g O2/l
Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) Biodegradation	67.5 g O2/l (5 days) 449.9 g O2/l 97 % (28 days) Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) Biodegradation 1-dodecanol (112-53-8)	67.5 g O2/l (5 days) 449.9 g O2/l 97 % (28 days)
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Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) Biodegradation 1-dodecanol (112-53-8) Persistence and degradability ThOD 1-tetradecanol (112-72-1)	67.5 g O2/l (5 days) 449.9 g O2/l 97 % (28 days) Biodegradable in the soil. Readily biodegradable in water. 3.09 g O ₂ /g substance
Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) Biodegradation 1-dodecanol (112-53-8) Persistence and degradability ThOD	67.5 g O2/l (5 days) 449.9 g O2/l 97 % (28 days) Biodegradable in the soil. Readily biodegradable in water. 3.09 g O ₂ /g substance Readily biodegradable in water.
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Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) Biodegradation 1-dodecanol (112-53-8) Persistence and degradability ThOD 1-tetradecanol (112-72-1) Persistence and degradability ThOD 1-butoxy-2-propanol (5131-66-8) Persistence and degradability 1,2-propanediol (57-55-6)	67.5 g O2/l (5 days) 449.9 g O2/l 97 % (28 days) Biodegradable in the soil. Readily biodegradable in water. 3.09 g O ₂ /g substance Readily biodegradable in water. 3.13 g O ₂ /g substance Readily biodegradable in water.
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Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) Biodegradation 1-dodecanol (112-53-8) Persistence and degradability ThOD 1-tetradecanol (112-72-1) Persistence and degradability ThOD 1-butoxy-2-propanol (5131-66-8) Persistence and degradability 1,2-propanediol (57-55-6) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD Sodium laureth sulphate (68891-38-3) Persistence and degradability 2.3. Bioaccumulative potential	67.5 g O2/l (5 days) 449.9 g O2/l 97 % (28 days) Biodegradable in the soil. Readily biodegradable in water. 3.09 g O₂ /g substance Readily biodegradable in water. 3.13 g O₂ /g substance Readily biodegradable in water. Biodegradable in the soil. Readily biodegradable in water. Biodegradable in the soil. Readily biodegradable in water. 0.96 – 1.08 g O₂ /g substance 1.63 g O₂ /g substance 1.69 g O₂ /g substance
Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) Biodegradation 1-dodecanol (112-53-8) Persistence and degradability ThOD 1-tetradecanol (112-72-1) Persistence and degradability ThOD 1-butoxy-2-propanol (5131-66-8) Persistence and degradability 1,2-propanediol (57-55-6) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD Sodium laureth sulphate (68891-38-3) Persistence and degradability 2.3. Bioaccumulative potential Respondol ATF 3/3	67.5 g O2/l (5 days) 449.9 g O2/l 97 % (28 days) Biodegradable in the soil. Readily biodegradable in water. 3.09 g O₂ /g substance Readily biodegradable in water. 3.13 g O₂ /g substance Readily biodegradable in water. Biodegradable in the soil. Readily biodegradable in water. 0.96 – 1.08 g O₂ /g substance 1.63 g O₂ /g substance 1.69 g O₂ /g substance Readily biodegradable in water.
Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) Biodegradation 1-dodecanol (112-53-8) Persistence and degradability ThOD 1-tetradecanol (112-72-1) Persistence and degradability ThOD 1-butoxy-2-propanol (5131-66-8) Persistence and degradability 1,2-propanediol (57-55-6) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD Sodium laureth sulphate (68891-38-3) Persistence and degradability 2.3. Bioaccumulative potential Respondol ATF 3/3 Bioaccumulative potential	67.5 g O2/l (5 days) 449.9 g O2/l 97 % (28 days) Biodegradable in the soil. Readily biodegradable in water. 3.09 g O₂ /g substance Readily biodegradable in water. 3.13 g O₂ /g substance Readily biodegradable in water. Biodegradable in the soil. Readily biodegradable in water. Biodegradable in the soil. Readily biodegradable in water. 0.96 – 1.08 g O₂ /g substance 1.63 g O₂ /g substance 1.69 g O₂ /g substance
Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) Biodegradation 1-dodecanol (112-53-8) Persistence and degradability ThOD 1-tetradecanol (112-72-1) Persistence and degradability ThOD 1-butoxy-2-propanol (5131-66-8) Persistence and degradability 1,2-propanediol (57-55-6) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD Sodium laureth sulphate (68891-38-3) Persistence and degradability 2.3. Bioaccumulative potential Respondol ATF 3/3	67.5 g O2/l (5 days) 449.9 g O2/l 97 % (28 days) Biodegradable in the soil. Readily biodegradable in water. 3.09 g O₂ /g substance Readily biodegradable in water. 3.13 g O₂ /g substance Readily biodegradable in water. Biodegradable in the soil. Readily biodegradable in water. 0.96 – 1.08 g O₂ /g substance 1.63 g O₂ /g substance 1.69 g O₂ /g substance Readily biodegradable in water.

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1-tetradecanol (112-72-1)	
BCF - Fish [1]	26 (BCFBAF v3.01, Pisces, QSAR)
Partition coefficient n-octanol/water (Log Pow)	5.5 (Experimental value, ASTM E1147, 25 °C)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
1-butoxy-2-propanol (5131-66-8)	
Partition coefficient n-octanol/water (Log Pow)	1.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
1,2-propanediol (57-55-6)	
Partition coefficient n-octanol/water (Log Pow)	-1.07 (Experimental value, EU Method A.8: Partition Coefficient, 20.5 °C)
Bioaccumulative potential	Not bioaccumulative.
Sodium laureth sulphate (68891-38-3)	
Partition coefficient n-octanol/water (Log Pow)	0.3 (Experimental value, OECD 123: Partition Coefficient (1-Octanol/Water): Slow-Stirring Method, 23 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2.4. Mobility in soil	
1-dodecanol (112-53-8)	
Surface tension	31.8 mN/m (23 °C, 6.4 mg/l)
Organic Carbon Normalized Adsorption	3.71 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on
Coefficient (Log Koc)	Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value
Ecology - soil	Low potential for mobility in soil.
1-tetradecanol (112-72-1)	
Surface tension	24 mN/m
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.53 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value
Ecology - soil	Low potential for mobility in soil.
1-butoxy-2-propanol (5131-66-8)	
Surface tension	57600 mN/m (20 °C, 100 vol %)
Ecology - soil	No straightforward conclusion can be drawn based upon the available numerical values.
1,2-propanediol (57-55-6)	
Surface tension	71.6 mN/m (21.5 °C, 1.01 g/l, EU Method A.5: Surface tension)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.46 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.
Sodium laureth sulphate (68891-38-3)	
Surface tension	33 mN/m (25 °C, 0.07 %, BS EN 14370:2004: Surface tension)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.34 (log Koc, QSAR)
Ecology - soil	Highly mobile in soil.
2.5. Results of PBT and vPvB assessment	t
Respondol ATF 3/3	
PBT: not relevant – no registration required	
vPvB: not relevant – no registration required	
Component	
1,2-propanediol (57-55-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1-butoxy-2-propanol (5131-66-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Sodium laureth sulphate (68891-38-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1-dodecanol (112-53-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
i de la companya de	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
1-tetradecanol (112-72-1)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1-tetradecanol (112-72-1) 12.6. Other adverse effects	

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Concentrate

Prevent foam concentrate from entering ground water, surface water or storm drains. Small quantities of foam concentrate may be collected on absorbents which can then be disposed of. Disposal should be made in accordance with local, state and federal regulations.

Foam/Foam Solution

Prevent foam/foam solution from entering ground water, surface water or storm drains. Small quantities of foam solution may be collected on absorbents which can then be disposed of. Disposal should be made in accordance with local, state and federal regulations.

NOTE: Please consult Angus Fire for additional information regarding the disposal of foam concentrates and foam solutions or visit https://angusfire.co.uk/use-discharge-and-disposal-of-firefighting-foam-products/.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 16 03 05* - organic wastes containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number			•	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper s	hipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport h	azard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gro	oup			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmen	ital hazards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
		No supplementary information	on available	

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:

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3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

Respondol ATF 3/3; 1-butoxy-2-propanol

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

15.1.2. National regulations

France

Occupational diseases : RG 84 - Affections engendrées par les solvants organiques liquides à usage professionnel

RG 66 - Rhinites et asthmes professionnels

Germany

Regulatory reference : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen
SZW-lijst van mutagene stoffen
SZW-lijst van reprotoxische stoffen
SZW-lijst van kankerverwekkende stoffen

None of the components are listed
SZW-lijst van reprotoxische stoffen

None of the components are listed

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen -

Ontwikkeling

: None of the components are listed

: None of the components are listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Full text of H- and EUH-state	ments:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	

SDS EU (REACH Annex II) - Angus Fire

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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