



Safety Data Sheet

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006

Product name HEFT Foam Agent

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

1.1. Product Identifier

Product code
Safety data sheet number
Product name HEFT Foam Agent
Pure substance/mixture Mixture

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

Recommended use Foam Liquid concentrate
Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet

Company Name HEFT AB (org. no.: 559197-4729)
Gustavsberg 413
Uddevalla 451 91, Sweden
Telephone: +46522 20 200

For further information, please contact

info@heftinternational.com

1.4. Emergency telephone number

Acute cases: Call 112, request poison information.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Corrosion/Irritation - Category 2 - (H315)
 Serious eye damage/eye irritation - Category 1 - (H318)
 Chronic Aquatic Toxicity - Category 3 - (H412)

2.2. Label Elements

Contains Alcohols, C12-14, ethoxylated, sulfates, sodium salts



Signal Word
 DANGER

Hazard Statements

H315 - Causes skin irritation
 H318 - Causes serious eye damage
 H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements

P264 - Wash face, hands and any exposed skin thoroughly after handling
 P280 - Wear protective gloves
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P321 - Specific treatment (see supplemental first aid instructions on this label)
 P332 + P313 - If skin irritation occurs: Get medical advice/attention
 P362 - Take off contaminated clothing and wash before re-use
 P280 - Wear eye protection/ face protection
 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 CENTRE or doctor/physician
 P273 - Avoid release to the environment
 P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other Hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not Applicable

3.2 Mixture

Chemical name	Index No	EC No	CAS No	weight-%	Classification according to Regulation (EC)	REACH registration number

					No. 1272/2008 [CLP]	
2-(2-Butoxyethoxy)ethanol	603-096-00-8	203-961-6	112-34-5	10 - 20%	Eye Irrit. 2 (H319)	01-2119475104-44
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	-	500-234-8	68891-38-3	5 - 10%	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	01-2119488639-16
Sodium Decyl Sulfate	-	205-568-5	142-87-0	4 - 6%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	01-2119970328-30
1-Tetradecanol	-	204-000-3	112-72-1	1 - 2%	Eye Irrit. 2A (H319) Aquatic Chronic 1 (H410)	01-2119485910-33

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).
Skin contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control centre or physician immediately.

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

Symptoms Prolonged skin contact may defat the skin and produce dermatitis.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None

5.2. Special hazards arising from the substance or mixture

None known.

Hazardous Combustion Products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulphur.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation, especially in confined areas.

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up**Methods for Containment**

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Pick up and transfer to properly labelled containers.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)**Specific Use(s)**

Fire extinguishing agent.

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure Limits**

Chemical name	European Union	United Kingdom	France	Spain	Germany
2-(2-Butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 67 mg/m ³ TWA: 10 ppm Ceiling / Peak: 15 ppm Ceiling / Peak: 100.5 mg/m ³
1-Tetradecanol 112-72-1	-	-	-	-	TWA: 20 ppm TWA: 178 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
2-(2-Butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	Skin STEL: 100 mg/m ³ TWA: 50 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
2-(2-Butoxyethoxy)ethanol 112-34-5	STEL 15 ppm STEL 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	STEL: 15 ppm STEL: 101 mg/m ³ TWA: 10 ppm TWA: 67 mg/m ³	STEL: 100 mg/m ³ TWA: 67 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³ STEL: 15 ppm STEL: 102 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³
Chemical name	Czech Republic	Russia	Hungary	Greece	Sweden
2-(2-Butoxyethoxy)ethanol 112-34-5	Ceiling: 100 mg/m ³ TWA: 100 mg/m ³	MAC: 10 mg/m ³	STEL: 101.2 mg/m ³ TWA: 67.5 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TLV: 10 ppm TLV: 68 mg/m ³ STEL: 15 ppm STEL: 101 mg/m ³

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Personal Protective Equipment**Eye/Face Protection
Hand protection**

Avoid contact with eyes. Tight sealing safety goggles.
Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves. Gloves must conform to standard EN 374.

Skin and Body Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN 140 with Type A filter or better.

Environmental exposure controls No information available.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid	Colour	No data available
Odour	Characteristic		
Odour Threshold	No data available		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7	
Melting Point / Freezing Point		No data available
Boiling point / boiling range	100 °C	
Flash Point	> 100 °C	
Evaporation Rate		No data available
Flammability (solid, gas)		No data available
Flammability limit in air		
Upper flammability limit:		No data available
Lower flammability limit:		No data available
Vapour Pressure		No data available
Vapour Density		No data available
Specific gravity		No data available
Water Solubility		No data available
solubility(ies)		No data available
Partition coefficient		No data available
Autoignition Temperature		No data available
Decomposition Temperature		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Explosive Properties	No data available	
Oxidising Properties	No data available	
VOC content (%)	10	

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerisation

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong oxidising agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulphur.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute Toxicity**

Inhalation	No data available.
Eye Contact	Corrosive to the eyes and may cause severe damage including blindness.
Skin contact	Irritating to skin.
Ingestion	May be harmful if swallowed.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	6,757.00 mg/kg
ATEmix (dermal)	26,034.00 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-(2-Butoxyethoxy)ethanol	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	
1-Tetradecanol	> 20 g/kg (Rat)	= 8 g/kg (Rabbit)	

Skin Corrosion/Irritation	Severe skin irritation.
Serious eye damage/eye irritation	Risk of serious damage to eyes.
Sensitisation	No information available.
Germ Cell Mutagenicity	No information available.
Carcinogenicity	No information available.

Reproductive Toxicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Aspiration Hazard	No information available.

SECTION 12: Ecological information**12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Crustacea
2-(2-Butoxyethoxy)ethanol	EC50 (96h) > 100 mg/L Desmodesmus subspicatus	LC50 (96h) static = 1300 mg/L Lepomis macrochirus	EC50 (48h) > 100 mg/L Daphnia magna EC50 (24h) = 2850 mg/L Daphnia magna
1-Tetradecanol	EC50 (96h) > 10 mg/L Desmodesmus subspicatus	LC50 (96h) > 10000 mg/L Brachydanio rerio	-



12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Chemical name	Partition coefficient
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	0.3
1-Tetradecanol	5.5

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues/Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Do not re-use container.

SECTION 14: Transport information

IMDG

- 14.1 UN/ID no NOT REGULATED
- 14.2 Proper Shipping Name NOT REGULATED
- 14.3 Hazard class NOT REGULATED
- 14.4 Packing group NOT REGULATED
- 14.5
- 14.6 Special Provisions None
- 14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC CODE No information available

RID

- 14.1 UN/ID no NOT REGULATED
- 14.2 Proper Shipping Name NOT REGULATED

14.3 Hazard class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

ADR

14.1 UN/ID no	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

ICAO (air)

14.1 UN/ID no	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

IATA

14.1 UN/ID no	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Chemical name	French RG number	Title
2-(2-Butoxyethoxy)ethanol 112-34-5	RG 84	-

Germany

Water hazard class (WGK) Hazardous to water (WGK 2)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
2-(2-Butoxyethoxy)ethanol - 112-34-5	Use restricted. See item 55.	

**Persistent Organic Pollutants**

Not Applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not Applicable**International Inventories**

TSCA	Complies
DSL/NDSL	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H319 - Causes serious eye irritation
H410 - Very toxic to aquatic life with long lasting effects
H302 - Harmful if swallowed
H315 - Causes skin irritation
H318 - Causes serious eye damage
H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Revision date 27-Jan-2020**Revision note** Not Applicable.**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**



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