



Safety Data Sheet

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

1.1. Product identifier

Product name: Foam extinguisher with compressed gas

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

Product use:

Fire Extinguisher

Uses advised against:

Do not use for purposes other than those listed.

1.3. Details of the supplier of the safety data sheet

Company name: Yuyao Tianbo Fire Fighting Equipment CO.Ltd

Address: LIANGNONG TOWN No.8 Xuanping Road Baishuichong Industrial Park 315400 Ningbo-yuyao CHINA

Telephone: 61602389

Phone: 13917497840

E-mail: david@yytianbo.cn

1.4. Emergency telephone number

Contact: 13917497840

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Press. Gas (Comp.) H280

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling compliant with regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP):



GHS04

Signal word (CLP): Warning

Hazard statements (CLP): H280 - Contains gas under pressure; may explode if heated

Precautionary statements (CLP):

Prevention (CLP): Not applicable.

Response (CLP): Not applicable.

Storage (CLP): P410+P403 - Protect from sunlight. Store in a well-ventilated place

Disposal (CLP): Not applicable.



2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Name	Product identifier	%	Classification	Specific Conc.Limits, M-factors and ATEs	
Water	CAS No.: 7732-18-5 EC No.: 231-791-2	95.0-98.0	Not classified	-	
2-(2-butoxyethoxy)ethanol	CAS: 112-34-5 EC No: 203-961-6	0.1-0.5	Eye Irrit. 2, H319	-	[1]
Ethylene glycol	CAS No.: 107-21-1 EC No.: 203-473-3	0.1-0.5	Acute Tox. 4 (Oral), H302 STOT RE 2, H373	-	[1]
Sodium Octyl Sulfate	CAS No.: 142-31-4 EC No.: 205-535-5	0.05-0.2	Skin Irrit. 2, H315 Eye Dam. 1, H318	Eye Dam. 1, H318: C ≥ 20% Eye Irrit. 2, H319: 10% ≤ C < 20%	
Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine	CAS No.: 90583-18-9 EC No.: 292-216-9	0.05-0.2	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 1063 mg/kg Eye Dam. 1, H318: C ≥ 20% Eye Irrit. 2, H319: 10% ≤ C < 20%	

[1] substance with national workplace exposure limit(s) (BE, FR, GB, NL); substance with a community workplace exposure limit

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove to fresh air, keep the patient warm and at rest.
First-aid measures after skin contact	: Wash skin thoroughly with mild soap and water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Do not induce vomiting. Seek medical advice.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Does not burn. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : This material does not burn. Use appropriate media to extinguish source of fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : The product itself does not burn. Contains gas under pressure; may explode if heated.

Explosion hazard : Contains gas under pressure; may explode if heated.

Reactivity in case of fire : None.

Hazardous decomposition products in case of fire : None.

5.3. Advice for firefighters

Firefighting instructions : Do not allow run-off from firefighting to enter drains or water courses. Evacuate area. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Cool closed containers exposed to fire with water spray.

Protective equipment for firefighters : Wear proper protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment : Wear suitable protective clothing.

Emergency procedures : Immediately contact emergency personnel.

For emergency responders

Protective equipment : Wear suitable protective clothing. In case of fire: Wear self-contained breathing apparatus.

Emergency procedures : Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Do not allow to enter into surface water or drains.

Methods for cleaning up : Flush residue with large amounts of water.

6.4. Reference to other sections

Suitable personal protective equipment is quoted in Section 8.

Further information on waste and disposal is given in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Caution! Container under pressure.
 Precautions for safe handling : Avoid high temperatures.
 Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Store in a well-ventilated place.
 Heat and ignition sources : Remove all sources of ignition. Store away from excessive heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-(2-butoxyethoxy)ethanol (112-34-5)		
EU	IOEL TWA	67.5 mg/m ³
EU	IOEL TWA [ppm]	10 ppm
EU	IOEL STEL	101.2 mg/m ³
EU	IOEL STEL [ppm]	15 ppm
Belgium	OEL NIA	67.5 mg/m ³
Belgium	OEL NIA [ppm]	10 ppm
Belgium	OEL STEL	101.2 mg/m ³
Belgium	OEL STEL [ppm]	15 ppm
France	VME (OEL TWA)	67.5 mg/m ³
France	VME (OEL TWA) [ppm]	10 ppm
France	VLE (OEL C/STEL)	101.2 mg/m ³
France	VLE (OEL C/STEL) [ppm]	15 ppm
Netherlands	TGG-8u (OEL TWA)	50 mg/m ³
Netherlands	TGG-8u (OEL TWA) [ppm]	7.4 ppm
Netherlands	TGG-15min (OEL STEL)	100 mg/m ³
Netherlands	TGG-15min (OEL STEL) [ppm]	15 ppm
United Kingdom	WEL TWA (OEL TINA) [1]	67.5 mg/m ³
United Kingdom	WEL TWA (OEL TINA) [2]	10 ppm
United Kingdom	WEL STEL (OEL STEL)	101.2 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	15 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	10 ppm (Inhalable fraction and vapor)

Ethane-1,2-diol (107-21-1)		
EU	IOEL TWA	52 mg/m ³
EU	IOEL NIA [ppm]	20 ppm
EU	IOEL STEL	104 mg/m ³
EU	IOEL STEL [ppm]	40 ppm
Belgium	OEL TWA	52 mg/m ³
Belgium	OEL TWA [ppm]	20 ppm
Belgium	OEL STEL	104 mg/m ³
Belgium	OEL STEL [ppm]	40 ppm

France	VME (OEL TWA)	52 mg/m ³
France	VME (OEL TWA) [ppm]	20 ppm
France	VLE (OEL C/STEL)	104 mg/m ³
France	VLE (OEL C/STEL) [ppm]	40 ppm
Netherlands	TGG-8u (OEL TWA)	52 mg/m ³ (damp) 10 mg/m ³ (druppels)
Netherlands	TGG-8u (OEL TWA) [ppm]	20 ppm (damp) 3.9 ppm (druppels)

Ethane-1,2-diol (107-21-1)		
Netherlands	TGG-15min (OEL STEL)	104 mg/m ³ (damp)
Netherlands	TGG-15min (OEL STEL) [ppm]	40 ppm (damp)
United Kingdom	WEL TWA (OEL TWA) [1]	10 mg/ m ³ 52 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	20 ppm
United Kingdom	WEL STEL (OEL STEL)	104 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	40 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	25 ppm (Vapor fraction)
USA - ACGIH	ACGIH OEL STEL	10 mg/m ³ (Inhalable fraction, Aerosol only)
USA - ACGIH	ACGIH OEL STEL [ppm]	50 ppm (Vapor fraction)

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:

Sealed safety goggles

Skin and body protection:

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
Appearance	: Liquid under pressure.
Colour	: Clear.
Odour	: Pleasant odour.
Odour threshold	: No data available
pH	: 7.0
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 95 - 105 °C
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: No data available
Solubility	: Water: water solution
Log Pow	: No data available
Viscosity, kinematic	: not determined, similar to water
Viscosity, dynamic	: not determined, similar to water
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at room temperature.

10.2. Chemical stability

Stable at room temperature.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

High temperature. Keep away from open flames, hot surfaces and sources of ignition. Keep out of direct sunlight.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	: Not classified
----------------	------------------

2-(2-butoxyethoxy)ethanol (112-34-5)	
LD50 oral	2410 – 5530 mg/kg bodyweight (Equivalent or similar to OECD 401, Mouse, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	2764 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal, 14 day(s))

Ethane-1,2-diol (107-21-1)	
LD50 oral rat	7712 mg/kg bodyweight (according to BASF-internal standards, Rat, Male / female, Experimental value, Aqueous solution, Oral, 7 day(s))
LD50 dermal	> 3500 mg/kg bodyweight (Mouse, Male / female, Experimental value, Dermal)
LC50 Inhalation - Rat	> 2.5 mg/l (6 h, Rat, Male / female, Experimental value, Inhalation (aerosol))

Sodium octyl sulphate (142-31-4)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, 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))

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

11.2. Information on other hazards

Other information : The substance / mixture has no endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

2-(2-butoxyethoxy)ethanol (112-34-5)	
LC50 - Fish	1300 mg/l (Equivalent or similar to OECD 203, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea	> 100 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

Ethane-1,2-diol (107-21-1)	
LC50 - Fish	> 72860 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, Daphnia magna, Static system, Fresh water, Experimental value)

Sodium octyl sulphate (142-31-4)	
LC50 - Fish	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	> 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)

12.2. Persistence and degradability

2-(2-butoxyethoxy)ethanol (112-34-5)	
Persistence and degradability	Readily biodegradable in water.

Ethane-1,2-diol (107-21-1)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.47 g O ₂ /g substance
Chemical oxygen demand (COD)	1.24 g O ₂ /g substance
ThOD	1.29 g O ₂ /g substance

Sodium octyl sulphate (142-31-4)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol (112-34-5)	
Partition coefficient n-octanol/water (Log Pow)	1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20°C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Ethane-1,2-diol (107-21-1)	
Partition coefficient n-octanol/water (Log Pow)	-1.36 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.

Sodium octyl sulphate (142-31-4)	
BCF - Fish [1]	3.162 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	< -2.31 (Calculated, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

2-(2-butoxyethoxy)ethanol (112-34-5)	
Surface tension	27 mN/m (25 °C, 0.00212 mol/g)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.642 – 1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

Ethane-1,2-diol (107-21-1)	
Surface tension	48.4 mN/m (20 °C)
Ecology - soil	Highly mobile in soil.

Sodium octyl sulphate (142-31-4)	
Surface tension	58.4 mN/m (21.5 °C, 1 g/l, EU Method A.5: Surface tension)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.88 – 2 (log Koc, Equivalent or similar to OECD 121, Experimental value)
Ecology - soil	Highly mobile in soil.

12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Consult the appropriate local waste disposal expert about waste disposal.
Sewage disposal recommendations	: Prevent entry to sewers and public waters.
Waste disposal recommendations	: Consult the appropriate local waste disposal expert about waste disposal. Do not allow to enter into surface water or drains.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport. (ADR 2025 and RID 2025; IMDG Code, 2024 Edition (Incorporating Amendment 42-24) ;IATA Dangerous Goods Regulations (67th Edition) 2026)

14.1. UN/ID number

UN-No. : 1044

14.2. UN proper shipping name

Proper shipping name : Fire Extinguishers
Transport document description : UN1044 FIRE EXTINGUISHERS, 2.2, (E)

14.3. Special precautions for user

Hazard labels (UN) : 2.2



14.4. Packing group

Not applicable.

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Hazard identification number (Kemler No.)	: Not Applicable
Classification code (UN)	: 6A
Special provision (ADR)	: 225. 594
Transport category (ADR)	: 3
Tunnel restriction code	: E
Limited quantities (ADR)	: 120ml
Excepted quantities (ADR)	: E0

14.6.2. Transport by sea

Transport regulations (IMDG)	: With regard to IMDG 42-24
EmS-No. (1)	: F-C, S-V
Special Provision	: 225

14.6.3. Air transport

Transport regulations (ICAO)	: With regard to IATA/ICAO 2026
Instruction "cargo" (ICAO)	: 213
Instruction "passenger" (ICAO)	: 212
Instruction "passenger" - Limited quantities (ICAO)	: Forbidden

14.6.4. Inland Waterway (ADN)

Transport regulations (ADN)	: With regard to ADR 2025 and RID 2025
Dangers (ADN)	: Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
Contains no REACH candidate substance

15.1.2. National regulations

Ensure all national/local regulations are observed.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Other information:

It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product. 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.

Full text of R-, H- and EUH-phrases:

Acute Tox. 4: H302 - Harmful if swallowed
Acute Tox. 2: H330 - Fatal if inhaled
Skin Irrit. 2: H315 - Causes skin irritation.
Eye Dam. 1: H318 - Causes serious eye damage.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Skin Sens. 1: H317 - May cause damage to organs.
STOT SE 2: H373 - May cause damage to organs through prolonged or repeated exposure.
STOT SE 3: H335 - May cause respiratory irritation.
Aquatic Chronic 1: H400 - Very toxic to aquatic life

Aquatic Chronic 2:H411 - Toxic to aquatic life with long lasting effects
Aquatic Chronic 3:H412 - Harmful to aquatic life with long lasting effects.
Comp. Gas : H280 - Contains gas under pressure; may explode if heated.

SDS EU (REACH Annex II)

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006.