



TITAN FIRE EXTINGUISHER RANGE

3% AFFF Foam MSDS

1. Identification of the substance/mixture and of the company

Product identification:	3% AFFF Foam
Use:	Portable fire-fighting equipment
Storage container:	Style fire extinguisher cylinder
Manufacturer:	Zhejiang Orientx Fire Safety Equipment Company Limited. Wuche Yan, Huang Jia Bu Town, Yuyao, Zhejiang, 315466, China. Tel: 0086-571-85803669 Fax: 0086-571-85809251 Email: pri_safety@mail.hz.zj.cn
UK Distributor:	Express Fire Equipment Ltd., Units 3-4 Mersey Road Industrial Estate, Mersey Road North, Failsworth, Manchester, M35 9LU. Tel: 0044 161 688 5050 Fax: 0044 161 688 5151 Email: info@expressfire.com

2. Hazards identification

This preparation is not classified as dangerous and there are no known hazards to human health and the environment as supplied. This product is not carcinogenic.

Route of entry:

Inhalation:	Yes	Skin:	Yes
Eyes:	Yes	Ingestion:	Yes

Effects of exposure:

The product may be irritating to the eyes.

3. Composition/information of the ingredients:

Description: Pressurised fire extinguisher cylinder.
Fire extinguishing foam concentrate based on fluorinated and non-fluorinated surfactants.
Keep container closed in a dry and well-ventilated area.

4. First aid measures.

General information: AFFF Foam
In case of inhalation: Move person to fresh air. Call a Doctor immediately.
After contact with skin: In case of contact with skin, wash off powder immediately with soap and water.
After contact with eyes: In case of contact with eyes, wash eyes with large amounts of fresh water. If eye irritation persists, consult a Doctor.
After ingestion: If swallowed, give small amounts of water to drink. Do not induce vomiting. Seek medical attention.

5. Fire fighting measures:

Suitable extinguishing media: This product is non flammable
Lower limits: Not provided
Upper limits: Not provided
Extinguishing media which must not be used for safety reasons: Not applicable
Special protective equipment for fire fighters: Not applicable
Additional information: The product itself is non-flammable and does not burn.
The product is contained within a compressed gas cylinder which may explode in the heat of a fire.
Use fire extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Do not flush into surface water or sanitary sewer system.

6. Accidental release measures:

Precautions against personal injuries:
Use in a well ventilated area.

Environmental precautions:
Do not allow the material to contaminate the ground water system. Prevent the product from entering drains.

Methods of cleaning/wiping:
Absorb using a liquid binding material such as sand or sawdust.

7. Handling and storage:

Handling:

Advice on safe handling:	Not required
Advice on protection against fire and explosion:	Not required
Further information on handling:	Not required.

Storage:

Requirements for storage rooms and vessels:	Keep in a dry place. Keep at temperatures below 50oC.
Advice on storage compatibility:	Not applicable
Further information on storage conditions:	Store in original container. Keep lid tightly closed.

8. Exposure controls/personal protection:

Exposure limit values:

Additional advice on control parameters: Not required

Exposure controls:

Occupational exposure controls:	Not required
Ventilation:	Use in a well ventilated area
Protective and hygienic measures:	Avoid dust formation in confined areas
Respiratory protection:	Use appropriate masks
Hand protection:	Wear chemical resistant gloves.
Eye protection:	Use chemical safety goggles
Skin protection:	Not normally required
Environmental exposure controls:	Do not flush into surface water. Do not let product enter drains.

General: Provide adequate washing facilities and wash hands before and after use. DO NOT eat, drink or smoke whilst using.

9. Physical and chemical properties:

General information:

Physical state:	Fine, solid, free flowing wettable material
Colour:	Amber brown thick liquid
Odour:	Characteristic odour
Flash point:	None

Explosive properties: Not applicable

Oxidizing properties:

The product is not flammable: fire extinguishing agent

Evaporation rate and reference: Not given

Solubility in water: Soluble

10. Stability and reactivity:

Stability condition to avoid: Exposure to excessive heat

Substances to be avoided: Oxidants and food.

Hazardous polymerization indicator: Not applicable

Conditions to avoid polymerization: Not applicable.

11. Toxological information:

Acute toxicity: None known

Corrosive and irritant effects: None known

Sensitising effects: None known

Sever effects after repeated or prolonged exposure: None known

Carcinogenic/mutagenic/toxic effects for reproduction: None known

Empirical data on effects on humans: None known

12. Ecological information:

Ecotoxicity: None known

Mobility: Soluble in water

Persistence and degradability: Readily biodegradable, according to tests

Bioaccumulative potential: Does not bioaccumulate

Other adverse effects: Slightly water endangering

Information given is based on data on the complements and the ecotoxicity of similar products.

13. Disposal considerations:

Advice on disposal:

Waste from residues: Dispose of in line with local and national regulations.

Waste disposal number of water from residues/unused products:

160506: WASTE NOT OTHERWISE SPECIFIED IN THE LIST: Gases in pressurised

containers and discarded chemicals; laboratory chemicals consisting of or containing dangerous substances, including mixtures of laboratory chemicals. Classified as hazardous waste.

14. Transport information:

Land transportation (ADR):	None known
Description of the goods:	Fire extinguishing agent
Remarks (land transport):	Not dangerous goods in respect of the ADR
Inland waterways transport:	
Description of the goods:	Fire extinguishing agent
Proper shipping name:	FIRE EXTINGUISHER
IMO PSN Code:	HGH
IMO PSN modifier:	CONTAINING COMPRESSED OR LIQUEFIUED GAS
IMDG Page number:	2141-1
UN Number:	2-13
Remarks (waterways transport):	Not dangerous goods in respect of sea and air transport regulations
Marine transport:	
Description of the goods:	Fire extinguishing agent
Remarks (marine transport):	Not dangerous goods in respect of sea and air transport regulations
Air transport:	
Description of the goods:	Fire extinguishing agent
Remarks (air transport):	Not dangerous goods in respect of sea and air transport regulations

15. Regulatory information:

Labelling:

Labelling according to current British Standards and BS EN 3 Kitemark approval.

Item	Requirement	Record
pH (20□)	7.5~9.0	8.8
Specific gravity	1.025~1.045	1.035

Refraction rate	1.3640~1.3660	1.3655
Sediment content (%)	≤0.05	0.01%
Freezing point	-6 ~ -10	-6
Surface tension (mN/m)	15.2~18.6	16.4
Froth multiple	6.0~9.0	8.0
25% extract liquid time (min.)	3.0~5.0	3.4
90% extinguish time (min.)	≤0.58	0.45
100% extinguish time (min.)	≤1.00	0.8
20% resist burn time (min.)	≥10.00	13.58

16. Other information:

The information provided on this safety data sheet is correct to the best of our knowledge at the date of publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty of quality specification. The information relates only to the specific material designated and may not be valid for such material use on combination with any other materials or in any process use, processing, storage transportation, disposal and release. 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.