

1. IDENTIFICATION DU PRODUIT ET DE LA SOCIÉTÉ

Trade Name	BIO TSC
Recommended use	Fire Fighting Foam Concentrate
Manufacturer	BIO-EX SAS
▲ Address	Z.I. La Petite Olivière ■ 69770 MONTROTTIER ■ FRANCE
▲ Phone	+33(0)4 74 70 23 81
▲ Fax	+33(0)4 74 70 23 94
▲ E-mail	labo@bio-ex.fr
Emergency phone number	+33(0)1 45 42 59 59 (Orfila)

2. HAZARDS IDENTIFICATION

MAIN HAZARDS

Health hazards	Irritating to eyes and skin
▲ Main symptoms	Tingling feeling
Physical and chemical hazards	
▲ Fire or explosion	Not flammable
Specific risks	This product is classified Xi : Irritant under European directive 1999/45/EC

3. COMPOSITION / INFORMATION ON COMPONENTS

PREPARATION

Chemical characterization	Aqueous solution of surfactants	
Hazardous components	AlkylSulfate	[50-55%]
	Xi ; R36/38	
	Ethanol	[<15%]
	F ; R11 / CAS N° : 64-17-5 / EINECS N° : 200-578-6	

4. FIRST AID MEASURES

▲ Skin contact	Wash off with water. Remove contaminated soaked clothing and rinse with water
▲ Eye contact	Flush eyes with plenty of water maintaining eyelids widely open and seek medical advice
▲ Swallowing	Wash mouth with water. Seek medical advice
▲ Inhalation	If you feel sick, seek medical advice

5. FIRE FIGHTING MEASURES

Extinguishing media	Fire fighting foam concentrate not flammable
Protective equipment for fire fighters	Aqueous solution ; does not present a specific risk in case of fire

6. ACCIDENTAL RELEASE MEASURES

Personal protection	Wear impervious clothes, wear gloves and goggles
Environmental protection	Absorb onto sand or other absorbent material and shovel into container for disposal
CLEANING MEASURES	
▲ Collecting	Pump into clearly identified unbreakable containers
▲ Cleaning / Decontamination	Wash thoroughly with water
▲ Elimination	Incineration according to local regulations

7. HANDLING AND STORAGE

HANDLING	Does not require specific technical equipment
STORAGE	
▲ Technical measures	Storage area should contain accidental spill
▲ Storage conditions	Store in normal cool warehouse
▲ Drumming conditions	<u>Product in bulk</u> : stainless steel, polyester or mild steel protected with epoxy or polyurethane coating. Tanks in PE, PP
PACKAGING MATERIAL	
▲ Recommended	Polyethylene, Polypropylene, stainless steel
▲ Not advised	Mild steel
▲ Recommended sealing	Viton, Kevlar, Teflon

8. EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTION	
▲ Hand protection	Impermeable gloves (PVC) if continual handling
▲ Eye protection	Goggles
▲ Body protection	Working clothes
EMERGENCY EQUIPMENT	
▲ Hygienic rules	Eye washer and emergency shower DO NOT eat, drink or smoke while handling the product. Clean hands after work

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

▲ Physical form	Liquid
▲ Colour / Odour	Yellow, synthetic
▲ pH at 20°C	7.0 +/- 1.0
▲ Freezing point	- 30°C
▲ Boiling point	+ 100 °C
▲ Characteristics of flammability	Not flammable, not explosive, not oxidizing
▲ Specific gravity at 20°C	1030 +/- 20 Kg / m ³
▲ Solubility	Completely soluble in water

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use and storage
Hazardous reactions	None expected in standard use

11. TOXICOLOGICAL DATA

Acute toxicity	/
Local effects	Irritating to eyes and skin (pure) Not irritant to eyes and skin at the recommended concentration of use

12. ECOLOGICAL DATA

ENVIRONMENTAL BEHAVIOUR

Biodegradation data (0.6% volume)	COD = 6341 mg O ₂ / l BOD ₅ = 1802 mg O ₂ / l BOD ₁₀ = 5523 mg O ₂ / l
Biodegradation	= 87% at 10 days BIO TSC is readily biodegradable Foaming agent if discharged in water
Bioaccumulative	/

ECOTOXICITY

Aquatic life toxicity	Not expected to be toxic after dilution
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13. DISPOSAL CONDITIONS

PRODUCT

▲ Prohibition	Do not discharge in the environment
▲ Destruction / Elimination	Small amounts of product do not interfere with water treatment facilities. If released in sewage system, it is recommended to control the flow rate in order to avoid any foaming excess

PACKAGING

▲ Prohibition	Do not discharge in the environment
▲ Decontamination / Cleaning	Rinse with plenty of water
▲ Destruction / Elimination	Incineration or an agreed method for package recycling

14. TRANSPORT INFORMATION

International regulations

- | | |
|-------------------|---------------|
| ▲ Road - RID/ADR | Not concerned |
| ▲ Sea - OMI/IMDG | Not concerned |
| ▲ Air - ICAO/IATA | Not concerned |

15. REGULATORY INFORMATION

LABELLING

CE regulations

- ▲ Class / Symbols
- ▲ R phrases
- ▲ S phrases

Classified

Xi

R 36/38

Irritating to eyes and skin

S 20/21

When using do not eat, drink or smoke

S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 28

After contact with skin, wash immediately with plenty of water

16. OTHER INFORMATIONS

Other informations

This safety data sheet complies with European directive 1907/2006/EC, article 31

R phrases as mentioned in paragraph 3

R 11

Highly flammable

R 36/38

Irritating to eyes and skin