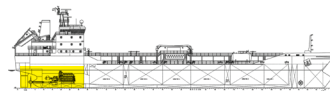


# BIO CONTROL F.O.T.



Page  
1 of 2

## A MICROBIOLOGICAL CONTROL AGENT FOR USE IN LUBE OIL AND FUEL OIL SYSTEMS

### PHYSICAL DATA

Appearance: light greenish liquid  
Specific gravity (20° C): 1,01  
Flash point: none  
pH (conc): approx. 3

### DESCRIPTION

- Effective against bacteria and algae in oil and contaminated water
- Special surface active component ensures complete coverage over large areas.
- Simple control & monitoring program.
- Easy to use liquid.

### APPLICATIONS

BIO CONTROL FOT is used in oil storage facilities which have problems due to bacteria colonisation and/or algae in the oil / water interface.

### DIRECTIONS FOR USE

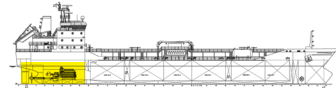
#### Sterilisation of Luboil Systems

After severe contamination, all areas should be cleaned manually to remove sludge and silt. On large engines, cleaning with undiluted UNICLEAN GP of the casing frame followed by opening and thoroughly cleaning the sumps is strongly recommended. This should be followed by flushing of the entire lubricating oil system with a flushing oil containing 500 - 700 ml of BIO CONTROL FOT for every m<sup>3</sup>.

#### Sterilisation of Fuel Storage Tanks

The action of bacteria in fuel during storage is widely misunderstood and its results often thought to be that of stratification of blended fuels due to incompatibility. If bacteria is suspected, water drawn from the fuel storage tank bottoms should be tested and the bacteria count established. If it is above 10<sup>5</sup>/ml, there is a good chance that colonisation has taken place throughout the fuel. In such case treat at 500 - 700 ml of BIO CONTROL FOT for each m<sup>3</sup> of fuel.

# BIO CONTROL F.O.T.

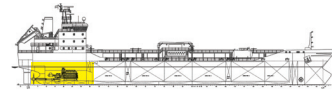


Page  
2 of 2

**IMPORTANT:** WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, THIS INFORMATION IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU DO A TEST TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION FURNISHED BY URRUTY GG NIEGO SRL HEREUNDER ARE GIVEN GRATIS, AND URRUTY GG NIEGO SRL ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

this space intentionally left blank

# BIO CONTROL F.O.T.



Rev.  
001

## Safety Data Sheet

### 1. Identification of the substance / preparation and the Company

#### 1.1 Identification of the substance or preparation

Product name BIOCONTROL FOT

#### 1.2 Use of the substance / preparation

Intended use FUEL BIOCIDES

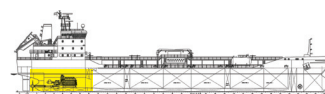
#### 1.3 Company identification

Name Urruty gg Niego S.r.l.  
Full address Via al Santuario di N.S. Guardia 58 a  
District and Country 16162 Genova Bolzaneto (GE)  
Italia  
Tel. + 39 010 711395  
Fax + 39 010 713120  
e-mail address of the  
competent person responsible  
for the Safety Data Sheet info@uniservicemarine.com

#### 1.4 Emergency telephone

For urgent inquiries refer to  
Informazioni di primo soccorso/First Aid  
Information: Centro Antiveneni Milano -  
Niguarda  
Tel./Phone: 02 - 66101029  
(specializzato in intossicazioni di prodotti  
chimici / specialized in chemical products  
poisoning).

# BIO CONTROL F.O.T.



Rev.  
001

## 2. Hazards Identification

### 2.1 Substance/Preparation Classification

This product is dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments. Therefore, this product requires a safety data sheet according to the Regulation (EC) 1907/2006 and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbols: Xn  
R phrases: 22-36/38-40-43

### 2.2 Danger Identification

HARMFUL IF SWALLOWED.  
IRRITATING TO EYES AND SKIN.  
LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.  
MAY CAUSE SENSITISATION BY SKIN CONTACT.

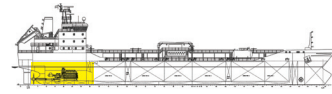
## 3. Composition / Information on ingredients

Contains:

Name	Concentration % (C)	Classification
ETILENDIOSSI DI METANOLO	2 <= C < 2,5	Xn R22
CAS No 3586-55-8		Xn R40
CE No 222-720-6		Xi R36/38
		Xi R43
5-CHLORO-2-METHYL-3 2H) - ISOTHIAZOLONE MIXT. with 2- METHYL-3 2H) -ISOTHIAZOLONE	0,06 <= C < 0,11	T R23/24/25
CAS No 55965-84-9		C R34
CE No -		Xi R43
Index No 613-167-00-5		N R50/53
ETHANEDIOL	94 <= C < 98	Xn R22
CAS No 107-21-1		
CE No 203-473-3		
Index No 603-027-00-1		

The complete text of -R- phrases is specified in section 16.

# BIO CONTROL F.O.T.



Rev.  
001

## 4. First aid measures

**EYES:** Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

**SKIN:** Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

**INHALATION:** Remove to open air. If breathing is irregular, seek medical advice.

**INGESTION:** Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

## 5. Fire-fighting measures

### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

### SUITABLE EXTINGUISHING MEDIA

The extinction equipment should be of the conventional kind: carbon dioxide, foam, powder and nebulised water.

### EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

None in particular.

### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

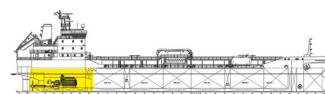
Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

## 6. Accidental release measures

### PERSONAL PRECAUTIONS

Eliminate sources of ignition (cigarettes, flames, sparks, etc.) from the air in which the leak occurred. If there are no contraindications, spray solid products with water to prevent the formation of dust. Use breathing equipment if fumes or powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or leaked product before donning appropriate protective gear. Send away individuals who are not suitably equipped. For information on risks for the environmental and health, respiratory tract

# BIO CONTROL F.O.T.



Rev.  
001

protection, ventilation and personal protection equipment, refer to the other sections of this sheet.

## ENVIRONMENTAL PRECAUTIONS

The product must not penetrate the sewers, surface water, ground water and neighbouring areas.

## METHODS FOR CLEANING UP

For liquid products, suck into a suitable container (made of material not incompatible with the product) and soak up any leaked product with absorbent inert material (sand, vermiculite, diatomeous earth, Kieselguhr, etc). Collect the majority of the remaining material and deposit in containers for disposal. For solid products, use spark proof mechanical tools to collect the leaked product and place in plastic containers. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

## 7. Handling and storage

Store in a well ventilated place, keeping the containers closed when not used. Do not smoke while handling. Keep far away from sources of heat, bright flames and sparks and other sources of ignition.

## 8. Exposure control / personal protection.

### 8.1 Exposure limit values

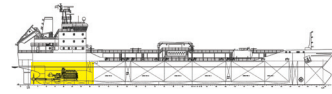
Name	Type	Country	TWA/8h		STEL/15min		
			mg/m3	ppm	mg/m3	ppm	
ETHANEDIOL	TLV-ACGIH				100 (C)		Skin
	OEL	EU	52	20	104	40	Skin
	OEL	IRL	20		40		Skin
	WEL	UK		20		40	Skin

C = CEILING

### 8.2 Exposure controls

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent. If such operations do not make it possible to keep the concentration of the product below the permitted workplace exposure thresholds a suitable respiratory tract protection must be

# BIO CONTROL F.O.T.



Rev.  
001

used. See product label for hazard details during use. Ask your chemical substance suppliers for advice when choosing personal protection equipment. Personal protection equipment must comply with the rules in force indicated below.

## HAND PROTECTION

Protect hands with category III (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVA, butyl, fluoroelastomer or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

## EYE PROTECTION

Wear protective airtight goggles (ref. standard EN 166).

## SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

## RESPIRATORY PROTECTION

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an B or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).

The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited.

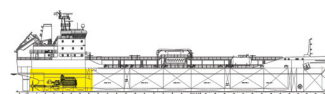
If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

An emergency eye washing and shower system must be provided.

The product must be used in a closed cycle, in well-aired environments fitted with strong localised aspiration systems (capture speed > 1.5 m/s), otherwise it is compulsory to use the personal protection equipment indicated and always in well-aired environments fitted with strong localised aspiration systems (capture speed > 1.5 m/s).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

# BIO CONTROL F.O.T.



Rev.  
001

## 9. Physical and chemical properties

Colour	Not available
Odour	glycols
Appearance	liquid
Solubility	complete
Specific gravity	1,15 Kg/l
Vapour density	Not available
Evaporation speed	Not available
Comburent properties	Not available
Partition coefficient: n-octanol/water	Not available
pH	Not available
Boiling point	Not available
Flash point	>120°C 32°C 1153°C
Explosive properties	Not available
Vapour pressure	Not available
Specific gravity	1,103Kg/l

## 10. Stability and reactivity

The product is stable in normal conditions of use and storage. Due to thermal decomposition or in the event of a fire vapours may be produced potentially dangerous to health.

Ethylene glycol may absorb moisture from the atmosphere up to twice its own weight.

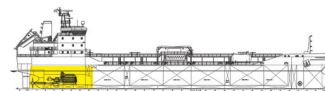
## 11. Toxicological information

Acute effects: ingestion of this product is harmful. Even small amounts of product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea). This product may slightly irritate mucosas, the upper respiratory tract, eyes, and skin. Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness.

This product must be handled carefully because of its possible carcinogenic effects. Anyway, currently available data do not allow us to comprehensively assess this product.



# BIO CONTROL F.O.T.



Rev.  
001

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scuffy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

Ethylene glycol: following ingestion it initially stimulates the CNS; later on depression results. Renal damage with anuria and uremia may occur. Symptoms of over exposure are: vomiting, somnolence, difficulty in breathing, convulsions. The lethal dose in man is approximately 1.4 l/kg. The way of entry is inhalation and ingestion.

ETHANEDIOL: oral LD50 (mg/kg) 4000 (RAT) ; dermal LD50 (mg/kg) 9530 (RABBIT).

---

## 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

Ethylene glycol is biodegradable.

---

## 13. Disposal consideration

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

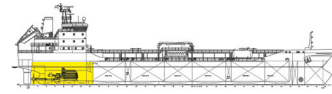
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

### CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

---

# BIO CONTROL F.O.T.

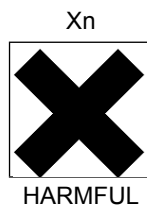


Rev.  
001

## 14. Transport information

This product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

## 15. Regulatory information



R22	HARMFUL IF SWALLOWED.
R36/38	IRRITATING TO EYES AND SKIN.
R40	LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.
S25	AVOID CONTACT WITH EYES.
S26	IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S36/37	WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.

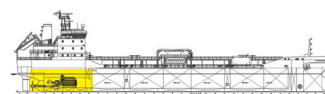
### Contains:

ETILENDIOSSI DI METANOLO  
5-CHLORO-2-METHYL-3 2H) -ISOTHIAZOLONE MIXT. with 2- METHYL-3 2H) -ISOTHIAZOLONE  
ETHANEDIOL

Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

# BIO CONTROL F.O.T.



Rev.  
001

## 16. Other information

Text of (R) phrases quoted in section 3 of the sheet.

R22	HARMFUL IF SWALLOWED.
R23/24/25	TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R34	CAUSES BURNS.
R36/38	IRRITATING TO EYES AND SKIN.
R40	LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R50/53	VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

### GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments;
2. Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);
3. Regulation (EC) 1272/2008 (CLP) of the European Parliament;
4. Regulation (EC) 1907/2006 (REACH) of the European Parliament;
5. The Merck Index. - 10th Edition;
6. Handling Chemical Safety;
7. Niosh - Registry of Toxic Effects of Chemical Substances;
8. INRS - Fiche Toxicologique (toxicological sheet);
9. Patty - Industrial Hygiene and Toxicology;
10. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.