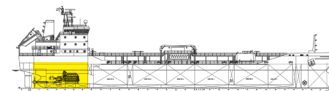


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MULTI PURPOSE CLEANING LIQUID FOR USE IN ULTRASONIC CLEANING BATHS AND CLEANING MACHINES

PHYSICAL DATA

Colour: yellowish
Specific gravity (at 20° C): 1.19
Flash point PM CC: none
pH (1% solution): approx. 11,5
Contains approx. 8% sodium hydroxide

DESCRIPTION

- Suitable for use on all common metals (except zinc and some magnesium alloys)
- Designed for ultrasonic equipment
- Easy to dispose
- Low foaming so can be used in cleaning machines (Bumpy Cleaners)

The cleaning of heavily contaminated fuel and lubricating oil filter, cylinder heads and aircoolers often give problems. The use of a cleaning agent only is generally unsatisfactory as only a part of the deposits will be removed, and in most cases carbon residues and other solid materials will be left behind. In such cases the use of ultrasonic sound waves in combination with a special cleaning agent gives good results. The contamination will be removed by the ultrasonic process in the liquid. The special detergents in the cleaning agent keep the contamination dispersed in the liquid and the complexing agents will partly dissolve them. ULTRASONIC MULTI CLEANER has been developed for use in ultrasonic baths for the cleaning of all materials except zinc, galvanised parts and/or magnesium alloy.

APPLICATION

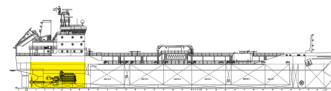
ULTRASONIC MULTI CLEANER is used in ultrasonic cleaning baths and in cleaning machines

DIRECTIONS FOR USE

Ultrasonic Cleaning Bath

The components to be cleaned can, if necessary, be degreased with COLDWASH or CLEAN BREAK or LECTRO CLEAN FAST. Depending on the degree of contamination. ULTRASONIC MULTI CLEANER should be used in a 5-25% solution in water at a temperature of 50-70° C. Dismantle the equipment to be cleaned (i.e.: remove top and bottom rings from filtercandles), put the components in the bath taking care that the elements are completely immersed and kept separate. We recommend a cleaning time of 5-30 minutes but longer if necessary. Take the elements out of the bath and spray with a powerful water-jet. After drying, TANKOTE or NAVALAN 402 can be used to preserve the elements. The cleaning solution has to be renewed and the bath cleaned regularly, because in a contaminated bath the parts cannot be cleaned effectively.

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Cleaning Machines

ULTRASONIC MULTI CLEANER is, depending on the nature and degree of contamination, applied in an approx. 4% solution in cleaning machines. The contaminated object must be placed in the machine and cleaned for 30-60 min. at a temperature of 80-90° C. Finally rinse with water.

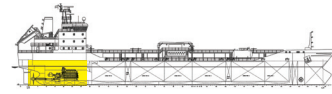
Product Characteristics

ULTRASONIC MULTI CLEANER is a low foaming mild alkaline liquid. It can be used on all common metals except zinc, galvanised materials and some magnesium alloys. We advise to test light-metal alloys (aluminium / magnesium alloys etc.) i.e. pistons, turboblower parts etc. in advance for 5-10 minutes. Suitable for use on synthetic materials, rubber and cured lacquers.

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.

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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: 22-41

2.2 Danger Identification

HARMFUL IF SWALLOWED.
RISK OF SERIOUS DAMAGE TO EYES.

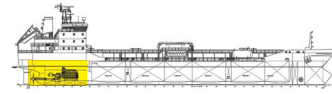
3. Composition / Information on ingredients

Contains:

Name	Concentration % (C)	Classification
ETYLON 911 - BIODAC 710 CAS No 61827-42-7	4 <= C < 4,5	Xn R22 Xi R41
2-BUTOXYETHANOL CAS No 111-76-2 CE No 203-905-0 Index No 603-014-00-0	3,5 <= C < 4	Xn R20/21/22 Xi R36/38
ETHANOLAMINE CAS No 141-43-5 CE No 205-483-3 Index No 603-030-00-8	0,8 <= C < 0,9	C R34 Xn R20/21/22

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

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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

In the event of a fire, cool containers immediately to prevent hazard of explosions and the generation of gas hazardous to health and safety. Always wear full fireproof gear.

GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SUITABLE EXTINGUISHING MEDIA

Use extinction equipment containing carbon dioxide, foam and chemical powders. For product leaks and spills that do not catch fire, nebulised water can be used to dispel flammable fumes and protect the individuals taking part in stemming the leak.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

Do not use water.

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), self-respirator (self-protector).

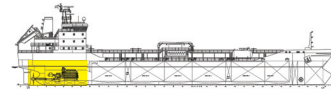
Il prodotto è un combustibile con elevata temperatura di accensione. In caso di incendio può svilupparsi monossido di carbonio

6. Accidental release measures

PERSONAL PRECAUTIONS

Wear appropriate protective equipment. Send away individuals who are not suitably equipped. 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 the leaked product before donning appropriate protective gear. For information on risks for the environmental and health, respiratory tract

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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. Dilute the product well with water after collection.

METHODS FOR CLEANING UP

Suck the liquid into a suitable container (made of material not incompatible with the product) and soak up any leaked product with absorbent inert material (sand, vermiculite, diatomaceous earth, Kieselguhr, tripoli powder, universal cement, etc). Neutralise remaining material. 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.

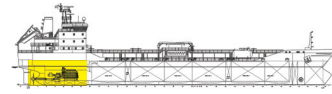
8.1 Exposure limit values

Name	Type	Country	TWA/8h		STEL/15min		
			mg/m3	ppm	mg/m3	ppm	
2-BUTOXYETHANOL							
	TLV-ACGIH		97				Skin
	OEL	EU	98	20	246	50	Skin
	OEL	IRL		20		50	Skin
	WEL	UK		25		50	Skin
ETHANOLAMINE							
	TLV-ACGIH		7,5		15		Skin
	OEL	EU	2,5	1	7,6	3	Skin
	OEL	IRL		3		6	Skin
	WEL	UK		3		6	Skin

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 used. See product label for hazard details during use. Ask your chemical substance suppliers for advice when choosing personal protection equipment.

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Personal protection equipment must comply with the rules in force indicated below.

HAND PROTECTION

Protect hands with category I (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in latex, PVC 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 hood visor or protective visor together with airtight goggles (ref. standard EN 166)

SKIN PROTECTION

Wear category I 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).

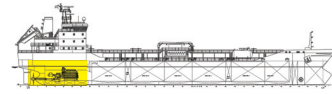
The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited.

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.

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.

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9. Physical and chemical properties

Colour	Not available
Odour	citrus
Appearance	liquid
Solubility	soluble
Specific gravity	1,05 kg/l
Vapour density	Not available
Evaporation speed	Not available
Comburent properties	Not available
Partition coefficient: n-octanol/water	Not available
pH	8,5
Boiling point	Not available
Flash point	Not available
Explosive properties	Not available
Vapour pressure	2000kPa
Specific gravity	0,985Kg/l

10. Stability and reactivity

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbon oxides may be released and vapours which are dangerous to health. The vapours may also form explosive mixtures with the air.

Stabile al riscaldamento sino a 200°C per tempi brevi

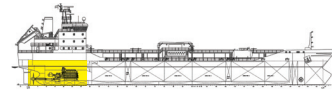
2-Butoxyethanol may form explosive peroxides; it reacts with light metals, such as aluminium (ref. H.C.S.).

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 mucosae, the upper respiratory tract, eyes, and skin. Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

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Vie di penetrazione: ingestione e contatto

Ingestione: LD50 ORALE ACUTA: > 1000 - 2000 mg/KG (ratto)

Contatto con gli occhi : Irritante per l'occhio

Contatto con la pelle: Non provoca effetti irritanti acuti

Sensibilizzazione. None sensibilizzante.

Inalazione: solo come aerosol. Può irritare le vie respiratorie.

2-BUTOXYETHANOL: oral LD50 (mg/kg) 470 (RAT) ; dermal LD50 (mg/kg) 220 (RABBIT) ; inhalation LC50 (rat) 2,21 mg/l/4h.

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.

Ripartizione ambientale: L'acqua come comparto naturale.

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.

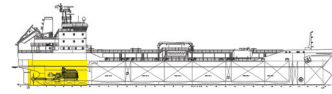
CONTAMINATED PACKAGING

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

14. Transport information

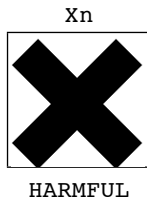
This product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

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15. Regulatory information



- R22 HARMFUL IF SWALLOWED.
R41 RISK OF SERIOUS DAMAGE TO EYES.
S25 AVOID CONTACT WITH EYES.
S26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S39 WEAR EYE/FACE PROTECTION.

Contains:

ETYLON 911 - BIODAC 710

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

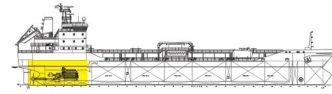
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

16. Other information

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

- R20/21/22 HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R22 HARMFUL IF SWALLOWED.
R34 CAUSES BURNS.
R36/38 IRRITATING TO EYES AND SKIN.
R41 RISK OF SERIOUS DAMAGE TO EYES.

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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.

Changes to previous review

The following sections were modified:

08