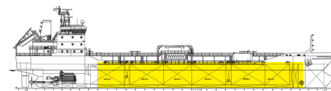


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MULTI-PURPOSE WATER BASED CLEANER



IMO APPROVED
MEPC.2/CIRC.13 Annex 10

PHYSICAL DATA

Appearance: Clear light yellow liquid with mild, non petroleum odour
Specific gravity: 1,07
Ph undiluted: 12,9
Ph 10% solution in seawater: 9
Solubility: complete fresh/seawater
Flash point: None

DESCRIPTION

UNICLEAN DRASTIC is a multi-purpose, water based non-caustic cleaning and degreasing agent, specifically formulated to meet the marine industry's requirements. It is based on the state-of-art most powerful biodegradable surface-active and emulsifying agents. The formulation of UNICLEAN DRASTIC includes fatty-alcohol-etoxyates, metasilicates and complexing agents. It works well in hard as well as soft water. It can be used at room temperature or with hot water. It is ideal for removing soot and for cleaning extremely dirty tanks after petroleum products and mineral oils.

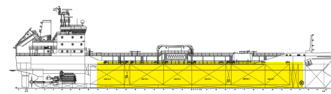
PRODUCT CHARACTERISTICS AND ADVANTAGES

- Non-flammable
- Leaves no film in the tanks
- Is completely soluble in water
- Suitable in sea and in fresh water
- Easy to apply
- Has no objectionable odour
- Low toxicity: contains no ethoxylated nonylphenol (NF)
- Biodegradable
- Does not create pollution
- Economical to use
- Very effective cleaning action
- Does not require special handling or storing

APPLICATION

UNICLEAN DRASTIC is a versatile cleaner. It is especially well suited for machine cleaning and for use in high-pressure spry guns. It is an excellent cleaner for general deck, engine room and steward used such as cleaning bulkheads, tank tops, bilges, machinery, engines, tools, kitchens, galley, etc. Before using UNICLEAN DRASTIC make sure the tanks and lines are well stripped and drained. A proper pre-cleaning will reduce the amount of product required. Flush the tank with ambient seawater to remove remaining cargo to

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slop. Tanks containing drying or semi-drying oils such as vegetable and animal fats should be flushed or pre-washed or moistened as soon as possible after completion of discharge to prevent formation of hard residues. An individual cleaning operation is recommended for each type of cargo. Recycle tanks with increasing temperature for 2-8 hr, depending cargo and size of tank. This is a very important operation, as it will remove oily-mud and residues in the coating. The temperature used for pre-cleaning will depend on whether the cargo is drying, semi-drying or non-drying, and the cargoes melting point. Due to the fact that the zinc is porous, a prolonged pre-cleaning with lower temperature is highly advisable prior to introduction of chemicals on such lining.

DOSAGE AND APPLICATION PROCEDURE

For general degreasing and cleaning, apply UNICLEAN DRASTIC with a 2-10% concentration in water (from 1 to 10-50 parts water) by brushing or swabbing. Allow the product to penetrate for approximately 5 minutes, and then rinse with water to provide a clean, film-free surface.

When mechanically cleaning with high-pressure spray equipment, apply UNICLEAN DRASTIC with a 0,5% concentration in water (1 part UNICLEAN DRASTIC to 200 parts water). When cleaning is complete flush tanks with large amount of warm seawater (2-3 hr) to remove any residual chemicals. Then flush tanks with freshwater to remove salts, mop and dry.

For machine cleaning of tanks using mechanical spraying units, UNICLEAN DRASTIC should be injected into the wash water supply line at a rate of 2 to 8 liters per ton of water.

For bilge cleaning and cleaning of other contaminated areas, UNICLEAN DRASTIC should be dosed at the rate of 1 liter per ton of bilge capacity or water used.

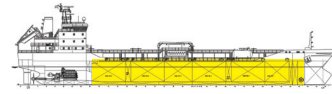
These recommended dosages should be used only as a guide. The chemicals requirements for each cleaning will vary depending on the temperature, the nature and degree of contamination.

Procedure for spot cleaning

UNICLEAN DRASTIC may be sprayed on the bulkhead neat or diluted, to areas where residues remain after tank washing. A heated dilution provides better cleaning action. The product should be allowed to stand for 30 minutes prior to rinsing soiled areas. Do not leave the product to dry on bare coating. Very dirty areas should be cleaned by flushing manually with high pressure, using fresh water, or by performing a re-circulation. For persistent deposits, agitation by scrubbing will assist the cleaning operation. Hot water will increase the cleaning effect.

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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Safety Data Sheet

1. Identification of the substance / preparation and the Company

1.1 Identification of the substance or preparation

Product name UNICLEAN DRASTIC

1.2 Use of the substance / preparation

Intended use Multipurpose, water based cleaning and degreasing agent

1.3 Company identification

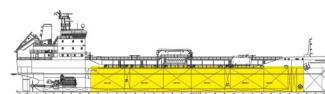
Name Urruty gg Niego S.r.l.
Full address Via al Santuario di N.S. Guardia 58 a
District and Country 16162 Genova Bolzaneto (GE)
Italia
Tel. + 39 010 711395
Fax + 39 010 713120

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 First Aid Information: Centro Antiveleni Milano - Niguarda
Phone: 02 - 66101029 (specialized in chemical products poisoning).

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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: 20/21/22-37/38-41

2.2 Danger Identification

HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
IRRITATING TO RESPIRATORY SYSTEM AND SKIN.
RISK OF SERIOUS DAMAGE TO EYES.

3. Composition / Information on ingredients

Contains:

Name	Concentration % (C)	Classification
MARLIPAL 31-9	28,5 <= C < 30	Xn R22
CAS No 68439-54-3		Xi R41
ETHANOLAMINE	8 <= C < 9	C R34
CAS No 141-43-5		Xn R20/21/22
CE No 205-483-3		
Index No 603-030-00-8		

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

4. First aid measures

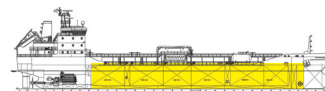
EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

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.

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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 all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. 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 the leaked product before donning appropriate protective gear. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, see the other sections of this sheet.

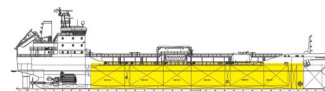
ENVIRONMENTAL PRECAUTIONS

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

METHODS FOR CLEANING UP

Use inert absorbent material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc.) to soak up leaked product. Collect the majority of the remaining material and deposit it in containers for disposal. 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.

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

HAND PROTECTION

Protect hands with category II (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitril 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.

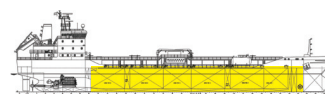
EYE PROTECTION

Wear hood visor or protective visor together with airtight goggles (ref. standard EN 166)

SKIN PROTECTION

Wear category II 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.

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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).

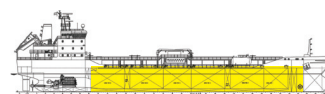
An emergency eye washing and shower system must be provided.

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.

9. Physical and chemical properties

Colour	Not available
Appearance	liquid
Solubility	soluble
Specific gravity	1,07 kg/l
Vapour density	Not available
Evaporation speed	Not available
Comburent properties	Not available
Partition coefficient: n-octanol/water	Not available
pH	11
Boiling point	Not available
Flash point	Not available
Explosive properties	Not available
Vapour pressure	Not available
Specific gravity	Not available

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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.

Monoethanolamine reacts basically in water and violently with strong acids.

11. Toxicological information

Acute effects: inhalation, cutaneous absorption and ingestion of this product are harmful. This product may irritate mucosae, the upper respiratory tract, and eyes. Exposure symptoms may include: stinging and irritated eyes, mouth, nose, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness. In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema. Upon contact with skin, this product may irritate it, causing an increase in skin temperature, swelling and itchiness. Ingestion of even small amounts of this product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea).

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

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.

13. Disposal consideration

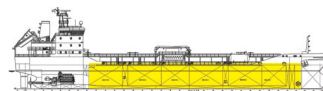
Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

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.

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14. Transport information

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.


Road and rail transport:

ADR/RID Class:	8	
UN:	2491	
Packing Group:	III	
Label:	8	
Nr. Kemler:	80	
Limited Quantity	LQ07	
Tunnel restriction code	(E)	
Proper Shipping Name:	Caustic alkali liquid, n.o.s. (ETHANOLAMINE)	

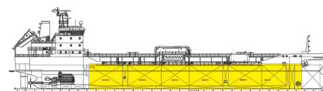
Carriage by sea (shipping):

IMO Class:	8	
UN:	2491	
Packing Group:	III	
Label:	8	
EMS:	F-A, S-B	
Marine Pollutant	NO	
Proper Shipping Name:	ETHANOLAMINE or ETHANOLAMINE SOLUTION	

Transport by air:

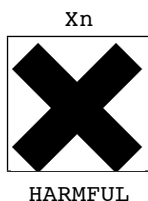
IATA:	8	
UN:	2491	
Packing Group:	III	
Label:	8	
Cargo:		
Packaging instructions:	820	
Maximum quantity:	60 L	
Pass.:		
Packaging instructions:	818	
Maximum quantity:	5 L	
Special Instructions:	A3	
Proper Shipping Name:	ETHANOLAMINE or ETHANOLAMINE SOLUTION	

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15. Regulatory information



- R20/21/22 HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R37/38 IRRITATING TO RESPIRATORY SYSTEM AND SKIN.
R41 RISK OF SERIOUS DAMAGE TO EYES.
S 9 KEEP CONTAINER IN A WELL-VENTILATED PLACE.
S25 AVOID CONTACT WITH EYES.
S26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S36/37/39 WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

Contains:
MARLIPAL 31-9

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

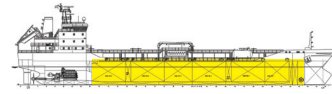
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

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.
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 / 13 / 14