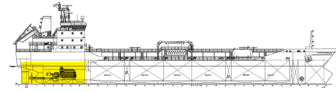


LUBE OIL SEPARATOR CLEANER



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DISC CLEANER

PHYSICAL DATA

Appearance: Light yellow liquid
Specific gravity: 1,273 Kg/l
pH (neat): 1
Solubility in water: Soluble.

DESCRIPTION

Special formulated blend of surfactants and acids, designed to remove carbonaceous and varnish deposits from lube and fuel oil separator discs.

- Concentrate blend of surfactants
- Completely soluble in water
- Contains no chlorinated hydrocarbons
- Does not attack stainless steel
- Degreases surfaces and machines parts
- Rapid water rinsing
- Easy to use for fast results

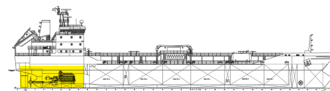
APPLICATIONS

- To clean separator discs from both lube and fuel oil systems.
- Specifically designed for cleaning stainless steel discs and parts.

ADVANTAGES

- Reduces cleaning time.
- Cost-effective.
- Easily diluted, no mixing.
- Easy to use.
- Dissolved deposits do not re-deposit.
- Safer to use.
- Does not harm discs.

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DIRECTIONS FOR USE - PRODUCT DOSE

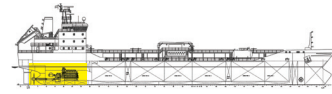
It is recommended that the discs be immersed in a dilute solution of LUBE OIL SEPARATOR CLEANER. Depending upon the quantity of deposits, a solution containing one part of LUBE OIL SEPARATOR CLEANER to four to eight parts water should be used. Any suitable metal container (except galvanized) or dip tank can be used to clean the parts. The solution can be used at ambient temperature, but faster cleaning will take place at an elevated temperature of 50°- 60°C (122°-140°F).

Do not immerse bronze or brass distributor support columns in the LUBE OIL SEPARATOR CLEANER solution since corrosion of these materials will likely occur. Remove the stainless steel discs from the support column and place only these stainless steel parts in the LUBE OIL SEPARATOR CLEANER solution. After cleaning has been completed, thoroughly rinse the parts with fresh or tap water.

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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LUBE OIL SEPARATOR CLEANER



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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 LUBE OIL SEPARATOR CLEANER

1.2 Use of the substance / preparation

Intended use Disc cleaner that degreases surfaces and machines parts.

1.3 Company identification

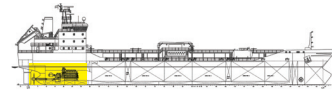
Name Urruty gg Niego S.r.l.
Full address Via al Santuario di N.S. Guardia 58 a
District and Country 16162 Genova Bolzaneto (GE)
Italia
Tel. + 39 010 711395
Fax + 39 010 713120

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: C
R phrases: 35

2.2 Danger Identification

CAUSES SEVERE BURNS.

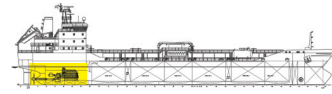
3. Composition / Information on ingredients

Contains:

| Name | Concentration % (C) | Classification |
|-----------------------|---------------------|----------------|
| ANFODAC LB | 10,5 <= C < 12 | Xi R36 |
| CAS No 4292-10-8 | | |
| CE No 224-292-6 | | |
| PHOSPHORIC ACID | 42,5 <= C < 45 | C R34 |
| CAS No 7664-38-2 | | Note B |
| CE No 231-633-2 | | |
| Index No 015-011-00-6 | | |

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: Immediately wash with plenty of water. Remove all contaminated clothing. Obtain immediate medical attention. Wash contaminated clothing separately before using them again.

INHALATION: Remove to open air. If breathing is irregular or stopped, administer artificial respiration. Obtain immediate medical attention.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Give nothing 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

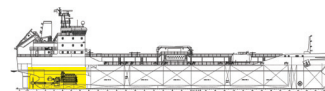
Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities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

6. Accidental release measures

PERSONAL PRECAUTIONS

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

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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, diatomeous 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

Make sure that equipment is available for cooling the vessels, to prevent the danger of overpressure and overheating in the event of fire in the vicinity. Refer to the other sections of this data sheet for information relating to health and environmental risks.

8. Exposure control / personal protection.

8.1 Exposure limit values

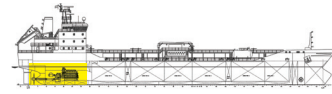
| Name | Type | Country | TWA/8h | | STEL/15min | | |
|-----------------|-----------|---------|--------|-----|------------|-----|--|
| | | | mg/m3 | ppm | mg/m3 | ppm | |
| PHOSPHORIC ACID | | | | | | | |
| | TLV-ACGIH | | 1 | | 3 | | |
| | OEL | EU | 1 | | | | |
| | OEL | IRL | 1 | | 2 | | |
| | WEL | UK | 1 | | 2 | | |

8.2 Exposure controls

Against corrosive properties of the product and according to the type of working, suitable protection equipment should be worn. Such as: an helmet to protect the face, the head and the neck, waterproof gloves and overall, resistant to the product.

Do not eat, drink or smoke while handling it; wash carefully the hands with soap and water before meals and after work shift; a shower is recommended.

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9. Physical and chemical properties

| | |
|--|---------------|
| Colour | Light yellow |
| Odour | pungent |
| Appearance | liquid |
| Solubility | soluble |
| Vapour density | Not available |
| Evaporation speed | Not available |
| Comburent properties | Not available |
| Partition coefficient: n-octanol/water | Not available |
| pH | 1 |
| Boiling point | 90°C |
| Melting point | -47°C |
| Flash point | >61°C |
| Explosive properties | Not available |
| Vapour pressure | 2,13KPa |
| Specific gravity | 1,273Kg/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.

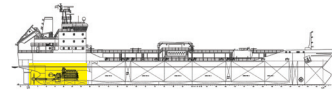
Phosphoric acid decomposes when heated forming toxic fumes of phosphorus oxide; it reacts with several metals with the formation of hydrogen which is explosive. Above 200 °C it also attacks glass.

11. Toxicological information

This product is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration.

Possible vapours are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours. Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness. If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible.

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PHOSPHORIC ACID: oral LD50 (mg/kg) 1530 (RAT) ; dermal LD50 (mg/kg) 2740 (RABBIT) ; inhalation LC50 (rat) > 0,85 mg/l/1h.

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

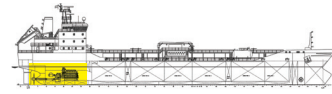
Consider the possibility of burning the product in a suitable incinerator. Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

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.

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Road and rail transport:

ADR/RID Class: 8
UN: 3264
Packing Group: II
Label: 8
Nr. Kemler: 80
Proper Shipping Name: Corrosive liquid, acidic,
inorganic, n.o.s. (PHOSPHORIC
ACID; HYDROCHLORIC ACID)



Carriage by sea (shipping):

IMO Class: 8
UN: 3264
Packing Group: II
Label: 8
EMS: F-A, S-B
Proper Shipping Name: ***Corrosive liquid, acidic,
inorganic, n.o.s. (PHOSPHORIC
ACID)***

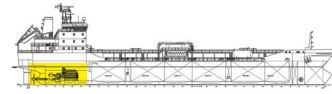


Transport by air:

IATA: 8
UN: 3264
Packing Group: II
Label: 8
Cargo:
Packaging instructions: 812
Maximum quantity: 30 L
Pass.:
Packaging instructions: 808
Maximum quantity: 1 L

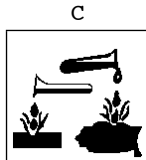


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15. Regulatory information



CORROSIVE

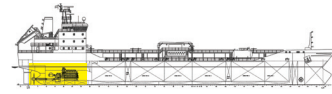
- R35 CAUSES SEVERE BURNS.
- S26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
- S28 AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF . . . (TO BE SPECIFIED BY THE MANUFACTURER).
- S36/37/39 WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.
- S45 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

Contains:
PHOSPHORIC ACID

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.

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16. Other information

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

R34 CAUSES BURNS.
R36 IRRITATING TO EYES.

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:

03 / 08 / 10 / 16