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NAUTILUS CLOTH PROTECTION - SAFETY DATA SHEET - june 2019 - batch n° 169-A9 rev.1/19

NAUTILUS CLOTH PROTECTION

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier

Trade name: **NAUTILUS CLOTH PROTECTION**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture: Ecological waterproofing treatment for fabrics

1.3 Details of the supplier of the safety data sheet

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From monday to friday office hours 8:30 – 12:30, 14:00 – 18:30

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified, according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard statements** Not applicable
- **Additional information:**
Safety data sheet available on request.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable

SECTION 3: Composition/information on ingredients

- Dangerous components:

Polimero Fluorurato	 Acute Tox. 4, H332	3-5%
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**- Additional information**

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** The product is not skin irritating.
- **After eye contact**
Rinse opened eye for several minutes under running water.
- **After swallowing** Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed**
No particularly relevant symptom -Asymptomatic in the short term
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Use fire fighting measures that suit the environment.
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Not required.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment. See Section 13 for

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:**
No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers. Keep locked up or out of reach of children.
Protect from heat and direct sunlight.



Protect from contamination.

- **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**

No further data; see item 7.

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

- DNELs		
2372-82-9 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		
Dermal	Systemic eff. long term workers	0.91 mg/kg (-)
Inhalative	Local eff. short term workers	2.35 mg/m3 (-)
- PNECs		
2372-82-9 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		
Depuration plant Sediment		1.33 mg/l (-)
(Fresh water) Sediment		8.5 mg/kg (-)
(seawater) Soil		0.85 mg/kg (-)
Fresh water		45.34 mg/kg (-)
Seawater		0.001 mg/l (-) 0.0001 mg/l (-)

- | CAS No. | Designation of material | % | Type | Value | Unit |
|---|-------------------------|---|------|-------|------|
| - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. | | | | | |
| - Additional information:
The lists that were valid during the compilation were used as basis. | | | | | |
| - 8.2 Exposure controls | | | | | |
| - Personal protective equipment | | | | | |
| - General protective and hygienic measures
The usual precautionary measures should be adhered to general rules for handling chemicals. | | | | | |
| - Breathing equipment:
Use breathing protection in case of insufficient ventilation. | | | | | |
| - Protection of hands: PVC or PE gloves | | | | | |
| - Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. | | | | | |
| - Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. | | | | | |
| - Eye protection: Safety glasses | | | | | |
| - Body protection: Protective work clothing. | | | | | |
| - Limitation and supervision of exposure into the environment
No special precautions are required for this product. | | | | | |



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SECTION 9: Physical and chemical properties

<ul style="list-style-type: none"> - 9.1 Information on basic physical and chemical properties - General Information - Appearance: <ul style="list-style-type: none"> Form: Colour: Fluid - Odour: Light yellow Nearly - Odour threshold: odourless Not determined. 	
<ul style="list-style-type: none"> - pH-value at 20 °C: 4.5 (OECD 122) - Melting point/freezing point: -2 °C (OECD 102) - Initial boiling point and boiling range: 101 °C (OECD 103) 	
<ul style="list-style-type: none"> - Flash point: Not applicable (aqueous solution ignitable) not 	
<ul style="list-style-type: none"> - Self-inflammability: Product is not selfigniting. 	
<ul style="list-style-type: none"> - Explosive properties: Product is not explosive. 	
<ul style="list-style-type: none"> - Critical values for explosion: <ul style="list-style-type: none"> Lower: Not applicable (aqueous solution ignitable) not Upper: Not applicable (aqueous solution ignitable) not 	
<ul style="list-style-type: none"> - Vapour pressure at 20 °C: 23 hPa (Reg.EC 440/2008 Annex A4) 	
<ul style="list-style-type: none"> - Density at 20 °C 1.02 g/cm³ (OECD 109) 	
<ul style="list-style-type: none"> - Solubility in / Miscibility with Water: Fully miscible 	
<ul style="list-style-type: none"> - Viscosity: <ul style="list-style-type: none"> dynamic: Not determined. Not kinematic: determined. 	
<ul style="list-style-type: none"> - Solvent content: <ul style="list-style-type: none"> Water: 94.8 % - Solids content: 5.3 % 	
<ul style="list-style-type: none"> - 9.2 Other information No further relevant information available. 	

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:		
2372-82-9 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		
Oral	LD50	261 mg/kg (Rat) (Linee Guida 401 per il Test dell'OECD)
2682-20-4 2-methyl-2H-isothiazol-3-one		
Oral	LD50	120 mg/kg (Rat) (Linee Guida 203 per il Test dell'OECD)
Dermal	LD50	242 mg/kg (Rabbit)
Inhalative	LC50/4h	0.11 mg/l (Rat) (Linee Guida 403 per il Test dell'OECD)
2634-33-5 1,2-benzisothiazol-3(2H)-one		
Oral	LD50	1,193 mg/kg (Rat)
Dermal	LD50	4,115 mg/kg (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** May have irritant effect.
- **Respiratory or skin sensitisation**
Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity**
Based on available data, the classification criteria are not met.
- **Carcinogenicity**
Based on available data, the classification criteria are not met.
- **Reproductive toxicity**
Based on available data, the classification criteria are not met.
- **STOT-single exposure**
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**
Based on available data, the classification criteria are not met.
- **Aspiration hazard**
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:		
2372-82-9 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		
LC50/96h	0.45 mg/l (Lepomis Macrochirus)	
EC50/48h	0.073 mg/l (Daphnia Magna)	
NOEC/72h	0.001-0.01 mg/l (Senastrum Capricornutum)	
NOEC/21 gg	0.024 mg/l (Daphnia Magna)	
2682-20-4 2-methyl-2H-isothiazol-3-one		
LC50/96h	4.77 mg/l (Oncorhyncus Mykiss)	
EC50/48h	0.93 mg/l (Daphnia Magna)	
EC50/72h	0.158 mg/l (Senastrum Capricornutum)	
NOEC/21 gg	0.04 mg/l (Daphnia Magna)	
2634-33-5 1,2-benzisothiazol-3(2H)-one		
LC50/96h	2.18 mg/l (Oncorhyncus Mykiss) (Linee Guida 203 per il Test dell'OECD)	
EC50/48h	2.94 mg/l (Daphnia Magna)	
EC50/72h	0.11 mg/l (Pseudokirchneriella Subcapitata)	
NOEC/72h	0.027 mg/l (Skeletonema costatum)	

(Contd. on page 6.)



- **12.2 Persistence and degradability**
No further relevant information available.
- **12.3 Bioaccumulative potential**
No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
~~Behaviour in sewage processing plants:~~

- Type of test Effective concentration Method Assessment		
2372-82-9 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		
Oral	NOAEL	9 mg/kg (Rat) (Linee Guida 408 per il Test dell'OECD)

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed with household waste.
- **Waste disposal key number:**
Below is the list of entries in the index attached to Decision 2014/955/EC. This list contains only the EWC codes directly related to the product and should not therefore be considered neither exhaustive nor binding. It is in fact the duty and responsibility of the user (waste producer) to choose the best EWC code based on the actual use of the product, any alterations and contaminations.
- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number	
- ADR, ADN, IMDG, IATA	Not applicable
- 14.2 UN proper shipping name	
- ADR, ADN, IMDG, IATA	Not applicable
- 14.3 Transport hazard class(es) ADN,	
- ADR, IMDG, IATA	
- Class	Not applicable
- 14.4 Packing group	
- ADR, IMDG, IATA	Not applicable
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Not applicable.

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- 14.7 Transport in bulk according to Annex II of Marpol and the IBC	
Code	Not applicable.
- Transport/Additional information:	Not dangerous according to the above specifications.
- UN "Model Regulation":	Not applicable

SECTION 15: Regulatory information

GENERAL BIBLIOGRAPHY

1. Directive 1999/45 / EC as amended
 2. Directive 67/548 / EEC and following amendments and adjustments
 3. Regulation (EC) 1907/2006 of the European Parliament (REACH)
 4. Regulation (EC) 1272/2008 of the European Parliament (CLP) and subsequent amendments.
 5. Regulation (EC) 453/2010 of the European Parliament
 6. The Merck Index. Ed. 10
 7. Niosh - Registry of Toxic Effects of Chemical Substances
 8. INRS - Fiche Toxicologique
 9. Patty - Industrial Hygiene and Toxicology
 10. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
 11. Web Site ECHA Agency
 12. Legislative Decree 81/2008 (Consolidated Law concerning the protection of health and safety in the workplace) and subsequent amendments
 13. Regulation 648/2004 / EC on detergents, as amended;
 14. Regulations on the Transport of Dangerous Goods by Road / Railway: Agreement ADR / RID.
- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
 - **National regulations**
 - **Water hazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
 - **15.2 Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H332 Harmful if inhaled.
- **Department issuing data specification sheet:** Product safety department.
- **Contact:** Product Safety Manager
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods IATA:
International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

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DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH) LC50:
Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic vPvB: very
Persistent and very Bioaccumulative Acute Tox. 4: Acute
toxicity – Category 4

- **Sources** Raw materials Safety Data Sheets

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