



## Safety data sheet

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**Product name  
Chemical name and synonym**COMPONENTE B NAUTILUS EPOXY PRIMER  
INDURITORE PER EPOSSIDICI****1.2. Relevant identified uses of the substance or mixture and uses advised against**Intended use **MARINA / NAUTICA**

Identified Uses	Industrial	Professional	Consumer
Prodotto verniciante per nautica outdoor	✓	✓	✓
Prodotto verniciante per usi industriali	✓	-	-
Prodotto verniciante per nautica indoor	✓	✓	✓
Prodotto verniciante per uso professionale	-	✓	-

**1.3. Details of the supplier of the safety data sheet**

Name **CECCHI GUSTAVO & C. srl.**  
Full address **Via M. Coppino 253**  
District and Country **55049 Viareggio (LU)**  
**Italy**  
**tel. +39 0584 383694**  
**fax +39 0584 395182**

e-mail address of the competent person

responsible for the Safety Data Sheet  
Product distribution by**info@cecchi.it**  
**CECCHI GUSTAVO & C. srl.****1.4. Emergency telephone number**

For urgent inquiries refer to

**+39 0584 383694**

### SECTION 2. Hazards identification.

**2.1. Classification of the substance or mixture.**

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Skin corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

## CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY  
tel. +39 0584 383694 fax +39 0584 395182  
www.cecchi.it info@cecchi.it



NAUTILUS EPOXY PRIMER COMPONENT B - Safety Data Sheet may 2017 - batch 144-AG rev.1/17

### 2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
EUH208	Contains: TRIETHYLENETETRAMINE

May produce an allergic reaction.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves / clothing and eye / face protection.
P310	Immediately call a POISON CENTER / doctor / . . .
P501	Dispose of contents / container to . . .

Contains:	3-AMINOPROPYLTRI-ETHOXYSILANO ISOBUTYL ALCOHOL BUTANOL POLIAMMINOAMMIDE TRIETHYLENETETRAMINE
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### 2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## SECTION 3. Composition/information on ingredients.

### 3.1. Substances.

Information not relevant.

### 3.2. Mixtures.



Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
<b>XYLENE (MIXTURE OF ISOMERS)</b>		
CAS. 1330-20-7	30 - 40	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Note C
EC. 215-535-7		
INDEX. 601-022-00-9		
Reg. no. 01-2119488216-32-XXXX		
<b>POLIAMMINOAMMIDE</b>		
CAS. 68082-29-1	30 - 40	Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC. 500-191-5		
INDEX. -		
Reg. no. 01-2119972320-44-XXXX		
<b>ISOBUTYL ALCOHOL</b>		
CAS. 78-83-1	10 - 20	Flam. Liq. 3 H226, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336
EC. 201-148-0		
INDEX. 603-108-00-1		
Reg. no. 01-2119484609-23		
<b>4-METHYLPENTAN-2-ONE</b>		
CAS. 108-10-1	10 - 20	Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066
EC. 203-550-1		
INDEX. 606-004-00-4		
Reg. no. 01-2119473980-30		
<b>3-AMINOPROPYLTRI-ETHOXSILANO</b>		
CAS. 919-30-2	5 - 7.5	Acute Tox. 4 H302, Skin Corr. 1B H314, Skin Sens. 1 H317
EC. 213-048-4		
INDEX. 612-108-00-0		
Reg. no. 01-2119480479-24-0001		
<b>BUTANOL</b>		
CAS. 71-36-3	3 - 5.5	Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336
EC. 200-751-6		
INDEX. 603-004-00-6		
<b>TRIETHYLENETETRAMINE</b>		
CAS. 90640-67-8	0 - 1	Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Skin Sens. 1A H317, Aquatic Chronic 3 H412

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**NAUTILUS EPOXY PRIMER COMPONENT B** - Safety Data Sheet may 2017 - batch 144-AG rev.1/17

EC. 292-588-2

INDEX. -

Reg. no. 01-2119487919-13

### **2,4,6-TRIS (DIMETILAMMINOMETIL) FENOLO**

CAS. 90-72-2

0.45 - 0.5

Acute Tox. 4 H302, Eye Irrit.  
2 H319, Skin Irrit. 2 H315

EC. 202-013-9

INDEX. 603-069-00-0

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## **SECTION 4. First aid measures.**

### **4.1. Description of first aid measures.**

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

**INGESTION:** Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

**INHALATION:** Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

### **4.2. Most important symptoms and effects, both acute and delayed.**

For symptoms and effects caused by the contained substances, see chap. 11.

### **4.3. Indication of any immediate medical attention and special treatment needed.**

Information not available.

## **SECTION 5. Firefighting measures.**

### **5.1. Extinguishing media.**

#### **SUITABLE EXTINGUISHING EQUIPMENT**

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

#### **UNSUITABLE EXTINGUISHING EQUIPMENT**

None in particular.

### **5.2. Special hazards arising from the substance or mixture.**

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

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations



and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

### **5.3. Advice for firefighters.**

#### **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.

#### **SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **SECTION 6. Accidental release measures.**

### **6.1. Personal precautions, protective equipment and emergency procedures.**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### **6.2. Environmental precautions.**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### **6.3. Methods and material for containment and cleaning up.**

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### **6.4. Reference to other sections.**

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage.**

### **7.1. Precautions for safe handling.**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic

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**NAUTILUS EPOXY PRIMER COMPONENT B** - Safety Data Sheet may 2017 - batch 144-AG rev.1/17

charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):

3

### 7.3. Specific end use(s).

Information not available.

## SECTION 8. Exposure controls/personal protection.

### 8.1. Control parameters.

Regulatory References:

DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

### XYLENE (MIXTURE OF ISOMERS)

#### Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	440	100	880	200	SKIN.
MAK	DEU	440	100	880	200	SKIN.
VLA	ESP	221	50	442	100	SKIN.
VLEP	FRA	221	50	442	100	SKIN.
WEL	GBR	220	50	441	100	
TLV	ITA	221	50	442	100	SKIN.
OEL	NLD	210		442		SKIN.
NDS	POL	100				

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**NAUTILUS EPOXY PRIMER COMPONENT B - Safety Data Sheet may 2017 - batch 144-AG rev.1/17**

OEL	EU	221	50	442	100	SKIN.
TLV-ACGIH		434	100	651	150	

## Predicted no-effect concentration - PNEC.

Normal value in fresh water	0.327	mg/l
Normal value in marine water	0.327	mg/l
Normal value for fresh water sediment	12.46	mg/kg
Normal value for marine water sediment	12.46	mg/kg
Normal value of STP microorganisms	6.58	mg/l
Normal value for the terrestrial compartment	2.31	mg/kg

**4-METHYLPENTAN-2-ONE****Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	83	20	166	40	SKIN.
MAK	DEU	83	20	166	40	SKIN.
VLA	ESP	83	20	208	50	
VLEP	FRA	83	20	208	50	
WEL	GBR	208	50	416	100	SKIN.
TLV	ITA	83	20	208	50	
OEL	NLD	104		208		
NDS	POL	83		200		
OEL	EU	83	20	208	50	
TLV-ACGIH		82	20	307	75	

**ISOBUTYL ALCOHOL****Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	310	100	310	100	
MAK	DEU	310	100	310	100	
VLA	ESP	154	50			
VLEP	FRA	150	50			
WEL	GBR	154	50	231	75	
OEL	NLD	150				
NDS	POL	100		200		
TLV-ACGIH		152	50			

## Predicted no-effect concentration - PNEC.

Normal value in fresh water	0.4	mg/l
Normal value in marine water	0.04	mg/l
Normal value for fresh water sediment	1.52	mg/kg d.w
Normal value for marine water sediment	0.152	mg/kg d.w.
Normal value for water, intermittent release	11	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0.0699	mg/kg d.w

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.							25 mg/kg d.w.	VND
Inhalation.			310 mg/m3	VND			55 mg/m3	VND



<b>BUTANOL</b>					
<b>Threshold Limit Value.</b>					
Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	310	100	310	100
MAK	DEU	310	100	310	100
VLA	ESP	61	20	154	50
VLEP	FRA			150	50
WEL	GBR			154	50
OEL	NLD			45	
NDS	POL	50		150	
TLV-ACGIH		61	20		

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

TLV of solvent mixture: 165 mg/m3.

## 8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.



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**NAUTILUS EPOXY PRIMER COMPONENT B** - Safety Data Sheet may 2017 - batch 144-AG rev.1/17

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## SECTION 9. Physical and chemical properties.

### 9.1. Information on basic physical and chemical properties.

Appearance	liquid
Colour	TRANSPARENT AMBER
Odour	TYPICAL AMINES
Odour threshold.	Not available.
pH.	Not available.
Melting point / freezing point.	Not available.
Initial boiling point.	> 35 °C.
Boiling range.	Not available.
Flash point.	> 23 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	0.884 Kg/l
Solubility	20% BY WT IN WATER
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	>10 mm <sup>2</sup> /sec (DIN ISO Cup 3 mm)
Explosive properties	Not available.
Oxidising properties	Not available.

### 9.2. Other information.

Solid content.	38.46 %
VOC (Directive 2010/75/EC) :	61.54 % - 543.76 g/litre.
VOC (volatile carbon) :	49.24 % - 435.05 g/litre.

## SECTION 10. Stability and reactivity.

### 10.1. Reactivity.

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

BUTANOL: attacks various types of plastic.



4-METHYLPENTAN-2-ONE: reacts violently with light metals, such as aluminium; attacks different types of plastic.

#### **10.2. Chemical stability.**

Excessively high temperatures can cause thermal decomposition.

#### **10.3. Possibility of hazardous reactions.**

See paragraph 10.1.

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

BUTANOL: reacts violently developing heat with: aluminium, strong oxidising agents, strong reducing agents, hydrochloric acid. Forms explosive mixtures with the air.

4-METHYLPENTAN-2-ONE: can react violently with oxidising agents. In the presence of air it forms peroxides. Forms explosive mixtures with air when hot.

#### **10.4. Conditions to avoid.**

Avoid overheating.

BUTANOL: avoid exposure to sources of heat and naked flames.

4-METHYLPENTAN-2-ONE: avoid exposure to sources of heat.

#### **10.5. Incompatible materials.**

Oxidising or reducing agents. Strong acids or bases.

4-METHYLPENTAN-2-ONE: oxidising substances, reducing substances.

#### **10.6. Hazardous decomposition products.**

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

## **SECTION 11. Toxicological information.**

#### **11.1. Information on toxicological effects.**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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. The vapors and/or powders 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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This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Acute effects: inhalation of this product may irritate the lower and upper respiratory tract and cause cough and respiratory disorders; at higher concentrations it can also cause pulmonary edema. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

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. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase. This product contains sensitizing substance/s and may cause allergic reactions.

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

#### XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral).3523 mg/kg Rat

LD50 (Dermal).4350 mg/kg Rabbit

LC50 (Inhalation).26 mg/l/4h Rat

#### ISOBUTYL ALCOHOL

LD50 (Oral).2460 mg/kg Rat

LD50 (Dermal).2460 mg/kg Rabbit

LC50 (Inhalation).19.2 mg/l/4h Rat

#### BUTANOL

LD50 (Oral).790 mg/kg Rat

LD50 (Dermal).3400 mg/kg Rabbit

LC50 (Inhalation).8000 ppm/4h Rat

#### 4-METHYLPENTAN-2-ONE

LD50 (Oral).2080 mg/kg Rat

LD50 (Dermal).> 16000 mg/kg Rabbit

LC50 (Inhalation).> 8.2 mg/l/4h Rat

#### 3-AMINOPROPYLTRI-ETHOXYSILANO

LD50 (Oral).> 1570 mg/kg ratto

LD50 (Dermal).> 3800 mg/kg coniglio

#### TRIETHYLENETETRAMINE

LD50 (Oral).> 1716 mg/kg FONTE: OCDE 401 SPECIE: RATTO

LD50 (Dermal).> 1465 mg/kg FONTE:OCDE 402 SPECIE:CONIGLIO

#### 2,4,6-TRIS (DIMETILAMMINOMETIL) FENOLO

LD50 (Oral).> 1200 mg/kg rat

LD50 (Dermal).> 1280 mg/kg rat

## SECTION 12. Ecological information.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

### 12.1. Toxicity.

#### XYLENE (MIXTURE OF ISOMERS)

LC50 - for Fish.

> 4.2 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea.

> 2.93 mg/l/48h Daphnia Magna

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**ISOBUTYL ALCOHOL**

LC50 - for Fish.	> 1.43 mg/l/96h Pimephales promelas
EC50 - for Crustacea.	> 1.1 mg/l/48h Daphnia pulex

**BUTANOL**

LC50 - for Fish.	> 1730 mg/l/96h PESCI (CAVEDANO AMERICANO)
EC50 - for Crustacea.	> 1983 mg/l/48h DAFNIA MAGNA

**3-AMINOPROPYLTRI-ETHOXYSILANO**

LC50 - for Fish.	> 2208 mg/l/96h pesci
EC50 - for Crustacea.	> 331 mg/l/48h Daphnia magna

**12.2. Persistence and degradability.****XYLENE (MIXTURE OF ISOMERS)**

Solubility in water.	mg/l 100 - 1000
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Biodegradability: Information not available.

Rapidly biodegradable.

**ISOBUTYL ALCOHOL**

Solubility in water.	mg/l 1000 - 10000
----------------------	-------------------

Rapidly biodegradable.

**BUTANOL**

Solubility in water.	mg/l 1000 - 10000
----------------------	-------------------

Rapidly biodegradable.

**4-METHYLPENTAN-2-ONE**

Solubility in water.	> 10000 mg/l
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Biodegradability: Information not available.

Rapidly biodegradable.

**12.3. Bioaccumulative potential.****XYLENE (MIXTURE OF ISOMERS)**

Partition coefficient: n-octanol/water.	3.12
BCF.	25.9



## ISOBUTYL ALCOHOL

Partition coefficient: n-  
octanol/water. 1

## BUTANOL

Partition coefficient: n-  
octanol/water. 1  
BCF. 3.16

## 4-METHYLPENTAN-2-ONE

Partition coefficient: n-  
octanol/water. 1.9

**12.4. Mobility in soil.**XYLENE (MIXTURE OF  
ISOMERS)

Partition coefficient: 2.73  
soil/water.

## ISOBUTYL ALCOHOL

Partition coefficient: 0.31  
soil/water.

## BUTANOL

Partition coefficient: 0.388  
soil/water.

## 4-METHYLPENTAN-2-ONE

Partition coefficient: 2.008  
soil/water.

**12.5. Results of PBT and vPvB assessment.**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**12.6. Other adverse effects.**

Information not available.

**SECTION 13. Disposal considerations.****13.1. Waste treatment methods.**

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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

**CECCHI GUSTAVO & C.**

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY  
tel. +39 0584 383694 fax +39 0584 395182  
www.cecchi.it info@cecchi.it



**NAUTILUS EPOXY PRIMER COMPONENT B** - Safety Data Sheet may 2017 - batch 144-AG rev.1/17

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

**SECTION 14. Transport information.****14.1. UN number.**

ADR / RID, IMDG, 1263  
IATA:

**14.2. UN proper shipping name.**

ADR / RID: PAINT or PAINT  
RELATED  
MATERIAL  
IMDG: PAINT or PAINT  
RELATED  
MATERIAL  
(POLIAMMINOA  
MMIDE)  
IATA: PAINT or PAINT  
RELATED  
MATERIAL

**14.3. Transport hazard class(es).**

ADR / RID:	Class: 3	Label: 3
IMDG:	Class: 3	Label: 3
IATA:	Class: 3	Label: 3

**14.4. Packing group.**

ADR / RID, IMDG, III  
IATA:

**14.5. Environmental hazards.**

ADR / RID: Environmentally  
Hazardous.  
IMDG: Marine Pollutant.  
IATA: NO



For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

**14.6. Special precautions for user.**

ADR / RID: HIN - Kemler: 30  
Special Provision: 640E

Limited  
Quantities: 5  
L

Tunnel  
restriction  
code: (D/E)

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IMDG:	EMS: F-E, S-E,	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 355
	Special Instructions:	A3, A72, A192	

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.

## SECTION 15. Regulatory information.

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Seveso category. 6

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.  
Point. 3 - 40

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

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.

Product not intended for uses provided for by Dir. 2004/42/CE.



German regulation on the classification of substances hazardous to water (VwVwS 2005).

WGK 2: Hazard to waters

#### 15.2. Chemical safety assessment.

A chemical safety assessment has been performed for the following contained substances.

XYLENE (MIXTURE OF ISOMERS)

4-METHYLPENTAN-2-ONE

ISOBUTYL ALCOHOL

### SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.



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**H412** Harmful to aquatic life with long lasting effects.  
**EUH066** Repeated exposure may cause skin dryness or cracking.

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - ECHA website

### 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.  
Provide appointed staff with adequate training on how to use chemical products.