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NAUTILUS Poly Mark III WHITE - comp. B - SAFETY DATA SHEET - October 2023 - batch n° 299-B3

Compliant with Annex II of REACH - Regulation (EU) 2020/878



# **NAUTILUS Poly Mark III WHITE** component **B**

Revision no. 17

Revision date 10/17/2023

Printed on 10/18/2023

Page no. 1/20

Replaces revision:16 (Revision date:

10/02/2023)

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

#### 1.1. Product identifier

Name NAUTILUS Poly Mark III WHITE component B

UFI: AE80-J025-700J-G2M5

# 1.2. Relevant identified uses of the substance or mixture and uses advised against HARDENER FOR POLYURETHANE ENAMEL

Identified Uses	Industrial	Professional	Consumption
painting	PROC: 10, 11, 7.	PROC: 10, 11, 7.	PROC: 10, 11, 7.
	PC: 9a.	PC: 9a.	PC: 9a.
	LCS: PW.	LCS: PW.	LCS: PW.

#### Uses Not Recommended

No further information available

# 1.3. Information about the supplier of the safety data sheet

**CECCHI GUSTAVO & C. Srl** Business name Address Via M. Coppino, 253 Locality and State 55049 Viareggio (LU)

tel. +390584 383694

email of the competent person responsible

for the safety data sheet info@cecchi.it

### 1.4. Emergency telephone number

For urgent information please contact

+ 39 0584 383694 from 8:30am to 12:30 and from 2pm to 18pm, from Monday to Friday Hospital.

Niguarda Ca Granda Milan Piazza Ospedale Maggiore 3 tel +39 02-66101029

Az Osp Papa Giovanni XXIII Bergamo Piazza OMS 1 tel +39 800883300

Az Osp Careggi UO Medical Toxicology Florence Largo Brambilla 3 tel +39 055 7947819

Az Osp A.Cardarelli Naples via A.Cardarelli 9 tel +39 081 7472870

Az Osp Univ Foggia Viale Luigi Pinto 1 tel +39 0881 732326

CAV Policlinico Umberto I Rome viale del Policlinico 155 tel +39 06 49978000 CAV Pediatric Osp Bambino Gesù Rome Piazza Sant''Onofrio 1 tel +39 06 68593726 CAV

Policlinico A Gemelli Rome Largo Agostino Gemelli 8 tel +39 06 3054343

CAV National Toxicological Information Center Pavia Via S Maugieri 10 tel +39 0382 24444

CAV Verona Borgo Trento Hospital Piazzale Aristide Steefani 1 tel +39 800011858

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# **SECTION 2. Hazard Identification**

#### 2.1. Substance or mixture classification

The product is classified as dangerous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). The product therefore requires a safety data sheet compliant with the provisions of Regulation (EU) 2020/878.

Any additional information regarding risks to health and/or the environment is reported in the sections. 11 and 12 of this sheet.

Hazard classification and indications:

Flammable liquid, category 3 H226 Flammable liquid and vapour.

Acute toxicity, category 4 H332 Harmful if inhaled.

Specific target organ toxicity - single exposure, H335 May irritate the respiratory tract.

category 3
Skin sensitization, category 1
H317
May cause an allergic skin reaction. May cause

Specific target organ toxicity - single exposure, H336 drowsiness or dizziness.

category 3

#### 2.2. Label elements

Hazard labeling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

#### Hazard pictograms:





Warnings: Attention

#### Hazard Statements:

**H226** Flammable liquid and vapour.

H332 Harmful if inhaled.

**H335** May irritate the respiratory tract.

**H317** May cause an allergic skin reaction. May cause

**H336** drowsiness or dizziness.

**EUH066** Repeated exposure may cause dryness and cracking of the skin.

# Precautionary advice:

P501 Dispose of the product or container in accordance with the Consolidated Environmental Law

**P102** 152/2006. Keep out of reach of children.

**P210** Keep away from heat, hot surfaces, sparks, open flames or other sources of ignition. Not smoking. Wear

P280 protective gloves/clothing and protect your eyes/face.P271 Use only outdoors or in a well-ventilated place.

**P101** If you consult a doctor, have the product container or label available.

**Contains:** POLY(HEXAMETHYLENE

DIISOCYANATE) N-BUTYL ACETATE

1-METHYL-2-METHOXYETHYL ISOPROPYL

**ACETATE** 

HEXAMETHYLENE-1,6-DIISOCYANATE

# VOC (Directive 2004/42/EC):

High performance two-component paints.

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VOC expressed in g/liter of ready-to-use product: 352.70 Maximum limit: 500.00

# 2.3. Other dangers

Based on available data, the product does not contain PBT or vPvB substances in percentages ≥ 0.1%.

Conc. %

The product does not contain substances with properties that interfere with the endocrine system in concentrations  $\geq$  0.1%.

# **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Identification

#### Contains:

Identification	Colic. 70	Classification 1272/2000 (CEI)
POLY (HEXAMETHYLEN DIISOCYANATE) INDEX -	73,933	Acute Tox. 4 H332, STOT SE 3 H335, Skin Sens. 1 H317 STA
CE 500-060-2		Inhalation of mists/dusts: 1.5 mg/l
CAS 28182-81-2		•
N-BUTYL ACETATE		
INDEX 607-025-00-1	16	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
CE 204-658-1		
CAS 123-86-4		
REACH Reg 01-2119485493-29		
1-METHYL-2- ACETATE METHOXYETHYL INDEX 607-195-00-7	8	Flam. Liq. 3 H226, STOT SE 3 H336
CE 203-603-9		
CAS 108-65-6		
REACH Reg 01-2119475791-29- xxxx ISOPROPYL ACETATE		
INDEX 607-024-00-6	2	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066, Classification note according to Annex VI of the CLP Regulation: C
CE 203-561-1		
CAS 108-21-4		
HEXAMETHYLENE-1,6-DIISOCYANATE		
INDEX 615-011-00-1	0.067	Acute Tox. 1 H330, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Classification note according to Annex VI of the CLP Regulation: 2
CE 212-485-8		Skin Sens. 1 H317: ≥ 0.5%, Resp. Sens. 1 H334: ≥ 0.5%
CAS 822-06-0		ATE Oral: 500 mg/kg, LC50 Inhalation vapors: 0.124 mg/l/4h

Classification 1272/2008 (CLP)

The complete text of the hazard indications (H) is shown in section 16 of the sheet.

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# **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately and abundantly with water for at least 15 minutes, opening the eyelids wide. Consult a doctor if the problem persists.

SKIN: Take off contaminated clothing. Wash immediately and abundantly with water. If irritation persists, consult a doctor. Wash the contaminated garments before reusing them.

INHALATION: Move the subject to fresh air. If breathing is difficult, call a doctor immediately.

INGESTION: Consult a doctor immediately. Induce vomiting only when advised by your doctor. Do not administer anything orally if the subject is unconscious and unless authorized by the doctor.

### 4.2. Main symptoms and effects, both acute and delayed

There is no specific information on the symptoms and effects caused by the product.

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

Information not available

# **SECTION 5. Fire fighting measures**

#### 5.1. Fire fighting

#### SUITABLE EXTINGUISHING MEANS

The extinguishing media are: carbon dioxide, foam, chemical powder. For product leaks and spills that have not ignited, water spray can be used to disperse flammable vapors and protect those trying to stop the leak.

UNSUITABLE EXTINGUISHING MEANS

Do not use water jets. Water is not effective in extinguishing fires however it can be used to cool closed containers exposed to flames preventing bursts and explosions.

# 5.2. Special hazards arising from the substance or mixture

DANGERS DUE TO EXPOSURE IN THE EVENT OF FIRE

Overpressure can be created in containers exposed to fire with risk of explosion. Avoid breathing combustion products.

# 5.3. Recommendations for fire extinguishers

# GENERAL INFORMATIONS

Cool the containers with jets of water to avoid decomposition of the product and the development of substances potentially dangerous to health. Always wear full fire protection equipment. Collect extinguishing water that must not be discharged into sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations.

EOUIPMENT

Normal fire-fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and fire fighter boots (HO A29 or A30).

# **SECTION 6. Accidental release measures**

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

Stop the leak if there is no danger.

Wear appropriate protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid both for workers and for emergency interventions.

 $Keep\ unequipped\ people\ away.\ Use\ explosion-proof\ equipment.\ Eliminate\ all\ sources\ of\ ignition\ (cigarettes,\ flames,\ sparks,\ flames,\ flames,$ 

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etc.) or heat from the area where the leak occurred.

### 6.2. Environmental precautions

Prevent the product from entering sewers, surface waters and groundwater.

#### 6.3. Methods and materials for containment and cleanup

Suck up the spilled product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.

Provide sufficient ventilation of the area affected by the leak. Disposal of contaminated material must be carried out in accordance with the provisions of point 13.

#### 6.4. Reference to other sections

Any information regarding personal protection and disposal is reported in sections 8 and 13.

# **SECTION 7. Handling and storage**

### 7.1. Precautions for Safe Handling

Keep away from heat, sparks and open flames, do not smoke or use matches or lighters. Without adequate ventilation, vapors can accumulate on the ground and ignite even remotely, if triggered, with the risk of backfire. Avoid the accumulation of electrostatic charges. Connect to an earth socket in the case of large packaging during decanting operations and wear antistatic shoes. The strong agitation and vigorous flow of the liquid in the pipes and equipment can cause the formation and accumulation of electrostatic charges. To avoid the risk of fire and explosion, never use compressed air when handling. Open containers with caution, as they may be under pressure. Do not eat, drink or smoke during use. Avoid dispersing the product into the environment.

# 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Keep containers closed, in a well-ventilated place, away from direct sunlight. Store in a cool, well-ventilated place, away from heat sources, open flames, sparks and other sources of ignition. Store containers away from any incompatible materials, checking section 10.

# 7.3. Specific end uses

Information not available

# **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

#### Normative requirements:

CZE	Ceská Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se
DEU	Deutschland	stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
EXP	Spain	Professional exposure limits for chemical agents in Spain 2021
FRA	France	Value limits of professional exposure to chemical agents in France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α 6.3.2020) ξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ` ὰχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδ έονπ την εργασία` »
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i zloškim graničnim vrijednostima (NN 1/2021)
ITA	Italy	Legislative Decree 9 April 2008, p.81

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SVN

GBR

type

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NLD Nederland Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en

4.16, eerste lid, van het Arbeidsomstandighedenbesluit

ROU Romania Hotărârea nr. 53/2021 for modification hotărârii guvernului nr. 1.218/2006, precum to be modified and

completed in hot guvernului nr. 1.093/2006

Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – Slovenia

ZVZD-1, 38/15, 78/18 into 78/19)

United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

OEL EU Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983;

Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive

2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

TLV-ACGIH ACGIH 2021

State

TWA/8h

mg/m3

ppm

Threshold limit value								
type	State	TWA/8h		STEL/15min		Note / Observati	nns	
		mg/m3	ppm	mg/m3	ppm	0230.744.		
TLV	CZE	270	49.14	550	100.1	SKIN		
AGW	DEU	270	50	270	50			
MAK	DEU	270	50	270	50			
VLA	EXP	275	50	550	100	SKIN		
VLEP	FRA	275	50	550	100	SKIN		
TLV	GRC	275	50	550	100			
GVI/KGVI	HRV	275	50	550	100	SKIN		
VLEP	ITA	275	50	550	100	SKIN		
TGG	NLD	550						
TLV	ROU	275	50	550	100	SKIN		
MV	SVN	275	50	550	100	SKIN		
WEL	GBR	274	50	548	100	SKIN		
OEL	EU	275	50	550	100	SKIN		
Predicted no-effect concen	tration on the enviro	nment - PNEC						
Reference value in fresh wate	er			0.635	m	g/l		
Reference value in sea water				0.0635	m	g/l		
Reference value for sedimen	ts in fresh water			3.29	mç	g/kg		
Reference value for sedimen	ts in sea water			0.329	0.329 mg/kg			
Reference value for STP micr	oorganisms			100	m	g/l		
Reference value for the terre	strial compartment			0.29	mg	g/kg		
Reference value for the atmo	sphere			6.35	m	g/l		
Health - Derived no effe	ect level - DNEL / D  Effects on consumers	MEL			Effects on workers			
Exhibition Street	Acute rooms	Acute systemic	Chronic premises	Systemic	Acute rooms	Systemic	Chronic premises	Systemic
Oral				chronic		acute	VND	chronic 1.6 mg/kg
Inhalation			VND	275 mg/m3			VND	33 mg/m3
Dermal			VND	153.5 mg/kg			VND	54.8 mg/kg
ISOPROPYL ACETATE								
Threshold limit value								

STEL/15min

ppm

mg/m3

Note / Observations

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Threshold limit value

State

TWA/8h

type

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TLV	CZE	800	188.8	1000	236	
MAK	DEU	420	100	840	200	
VLA	EXP	425	100	850	200	
VLEP	FRA	950	250	1140	300	
TLV	GRC	950	250	1140	275	
GVI/KGVI	HRV			849	200	
TLV	ROU	400	96	600	144	
MV	SVN	420	100	420	100	
WEL	GBR			849	200	
TLV-ACGIH			100		150	

ype	State	TWA/8h		STEL/15min		Note / Observation	ins	
		mg/m3	ppm	mg/m3	ppm			
TLV	CZE	950	196.65	1200	248.4			
AGW	DEU	300	62	600 (C)	124 (C)			
VLA	EXP	241	50	724	150			
VLEP	FRA	710	150	940	200			
TLV	GRC	710	150	950	200			
GVI/KGVI	HRV	241	50	723	150			
VLEP	ITA	241	50	723	150			
TGG	NLD	150						
TLV	ROU	241	50	723	150			
MV	SVN	300	62	600	124			
WEL	GBR	724	150	966	200			
OEL	EU	241	50	723	150			
TLV-ACGIH			50		150			
Predicted no-effect concen	tration on the enviro	nment - PNEC						
Reference value in fresh wate	er			0.18	m	g/l		
Reference value in sea water				0.018	m	g/l		
Reference value for sediment	ts in fresh water			0.981	mç	g/kg		
Reference value for sediment	ts in sea water			0.0981	mç	g/kg		
Reference value for STP micro	oorganisms			35.6	m	g/l		
Reference value for the terre	strial compartment			0.0903	mg	g/kg		
Reference value for the atmo	sphere			0.36	m	g/l		
Health - Derived no effe	ect level - DNEL / DI Effects on consumers	MEL			Effects on workers			
Exhibition Street	Acute rooms	Acute systemic	Chronic premises	Systemic chronic	Acute rooms	Systemic acute	Chronic premises	Systemic chronic
Inhalation	859.7 mg/m3	859.7 mg/m3	102.34 mg/m3	102.34 mg/m3	960 mg/m3	960 mg/m3	480 mg/m3	480 mg/m

STEL/15min

Note /

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						Observati	ons	
		mg/m3	ppm	mg/m3	ppm			
TLV	CZE	0.035	0.005	0.07	0.01			
AGW	DEU	0.035	0.005	0.035 (C)	0.005 (C)			
MAK	DEU	0.035	0.005	0.035 (C)	0.005 (C)		C = 0.070	mg/m3
VLA	EXP	0.035	0.005					
VLEP	FRA	0.075	0.01	0.15	0.02			
TLV	ROU	0.05	0.007	1	0.14			
MV	SVN	0.035	0.005	0.035	0.005			
TLV-ACGIH		0.034	0.005					
Predicted no-effect concentration o	n the environment	- PNEC						
Reference value for sediments in	fresh water			0.01334	mg	ı/kg		
Reference value for sediments in	ı sea water			0.001334	334 mg/kg			
Reference value for STP microor	ganisms			8.42	mg/l			
Reference value for the terrestric	al compartment			0.0026	mg	ı/kg		
Health - Derived no effect	level - DNEL / D	MEL						
	Effects on consumers				Effects on workers			
Exhibition Street	Acute rooms	Acute systemic	Chronic premises	Systemic chronic	Acute rooms	Systemic acute	Chronic premises	Systemic chronic
Inhalation					0.07 mg/m3		0.035 mg/m3	

Legend:

(C) = CEILING; INALAB = Inhalable Fraction; RESPIR = Respirable Fraction; TORAC = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available; NEA = no expected exposure; NPI = no hazard identified; LOW = low danger; MED = medium danger; HIGH = high danger.

# 8.2. Exposure controls

Considering that the use of adequate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local extraction.

When choosing personal protective equipment, ask your chemical suppliers for advice if necessary. Personal protective equipment must bear the CE marking which certifies their compliance with current regulations.

Provide emergency shower with eyecup.

#### HAND PROTECTION

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

For the final choice of work glove material, the following must be considered: compatibility, degradation, breaking time and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is unpredictable. The gloves have a wear time that depends on the duration and method of use.

# SKIN PROTECTION

Wear work clothes with long sleeves and safety footwear for professional category II use (ref. Regulation 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

Consider providing anti-static clothing if the work environment presents a risk of explosiveness.

#### **EYE PROTECTION**

We recommend wearing airtight protective glasses (ref. standard EN 166).

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#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is recommended to wear a mask with a type A filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387). If gases or vapors of a different nature and/or gases or vapors with particles (aerosols, fumes, mists, etc.) are present, combined filters must be provided. The use of respiratory protection means is necessary if the technical measures adopted are not sufficient to limit the worker's exposure to the threshold values taken into consideration. However, the protection offered by masks is limited.

In the event that the substance considered is odorless or its olfactory threshold is higher than the relevant TLV-TWA and in case of emergency, wear an open-circuit compressed air breathing apparatus (ref. standard EN 137) or a self-contained breathing apparatus external air (ref. EN 138 standard). For the correct choice of respiratory protection device, refer to the EN 529 standard.

#### **ENVIRONMENTAL EXPOSURE CONTROLS**

Emissions from production processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.

# **SECTION 9. Physical and chemical properties**

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

<b>Property</b> Physical State	<b>Value</b> viscous liquid	Information
Color	colorless	
Odor	of solvent	
Olfactory threshold	not determined	
Melting or freezing point Initial	not available	
boiling point	not available	
Flammability	flammable liquid	
Lower explosive limit	not determined	Reason for missing data: The product is a mixture
Upper explosive limit	not determined	Reason for missing data: The product is a mixture
Flash point Auto-ignition	23 ≤ T ≤ 60 °C	
temperature	not determined	Reason for missing data: The product does
Decomposition temperature	not determined	not contain substances with this property Reason for missing given: The product does not contain substances with this property
рН	Not applicable	Reason for missing given: substance/mixture is not soluble (in water)
Kinematic viscosity	> 20.5 mm2/sec (40°C)	
Solubility	immiscible with water	
Partition coefficient: n-octanol/water: Vapor	not applicable	
pressure	not determined	
Density and/or Relative	1.056 kg/l	
density Relative vapor density	not determined	
Particle characteristics	Not applicable	

# 9.2. More information

9.2.1. Information regarding physical hazard classes

Information not available

9.2.2. Other safety features

Evaporation rate not determined

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 VOC (Directive 2004/42/EC):
 33.40% - 352.70 g/litre

 VOC (volatile carbon)
 15.45 % - 163.16 g/litre not

Explosive properties applicable
Oxidizing properties Not applicable

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular dangers of reaction with other substances under normal conditions of use.

1-METHYL-2-METHOXYETHYL ACETATE

Stable under normal conditions of use and storage.

With air it can slowly give off peroxides which explode due to an increase in temperature.

N-BUTYL ACETATE

Decomposes on contact with: water.

HEXAMETHYLENE-1,6-DIISOCYANATE

Decomposes at 255°C/491°F. Polymerizes at temperatures above 200°C/392°F.

# 10.2. Chemical stability

The product is stable under normal conditions of use and storage.

# 10.3. Possibility of dangerous reactions

Vapors can form explosive mixtures with air.

1-METHYL-2-METHOXYETHYL ACETATE

May react violently with: oxidizing substances, strong acids, alkali metals.

N-BUTYL ACETATE

Risk of explosion in contact with: strong oxidizing agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

HEXAMETHYLENE-1,6-DIISOCYANATE

May form explosive mixtures with: alcohols, bases. May react violently with: alcohols, amines, strong bases, oxidizing agents, strong acids, water.

# 10.4. Conditions to avoid

Avoid overheating. Avoid the accumulation of electrostatic charges. Avoid any source of ignition.

N-BUTYL ACETATE



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Avoid exposure to: humidity, heat sources, open flames.

HEXAMETHYLENE-1,6-DIISOCYANATE

Avoid exposure to: high temperatures, humidity.

#### 10.5. Incompatible materials

1-METHYL-2-METHOXYETHYL ACETATE

Incompatible with: oxidizing substances, strong acids, alkali metals.

N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

HEXAMETHYLENE-1,6-DIISOCYANATE

Incompatible with: alcohols, carboxylic acids, amines, strong bases.

#### 10.6. Hazardous decomposition products

Due to thermal decomposition or in the event of fire, gases and vapors potentially harmful to health can be released.

HEXAMETHYLENE-1,6-DIISOCYANATE

May develop: nitrogen oxides, hydrogen cyanide.

# **SECTION 11. Toxicological information**

In the absence of experimental toxicological data on the product itself, any health hazards of the product were assessed based on the properties of the substances contained, according to the criteria established by the reference legislation for classification.

Therefore, consider the concentration of the individual dangerous substances possibly mentioned in section. 3, to evaluate the toxicological effects resulting from exposure to the product.

# 11.1. Information on the hazard classes defined in Regulation (EC) no. 1272/2008

Metabolism, kinetics, mechanism of action and other information

### 1-METHYL-2-METHOXYETHYL ACETATE

The main route of entry is the skin, while the respiratory route is less important, given the low vapor pressure of the product.

Information on likely routes of exposure

1-METHYL-2-METHOXYETHYL ACETATE

WORKERS: inhalation; contact with the skin.

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N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

Immediate, delayed and chronic effects resulting from short- and long-term exposures

### 1-METHYL-2-METHOXYETHYL ACETATE

Above 100 ppm there is irritation of the ocular, nasal and oropharyngeal mucous membranes. At 1000 ppm, balance disturbances and severe eye irritation are noted. The clinical and biological tests carried out on the exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation upon direct contact. No chronic effects on humans are reported (INCR, 2010).

#### N-BUTYL ACETATE

In humans, vapors of the substance cause irritation of the eyes and nose. In case of repeated exposure, skin irritation, dermatosis (with dryness and cracking of the skin) and keratitis occur.

#### Interactive effects

#### N-BUTYL ACETATE

A case of acute intoxication has been reported in a 33-year-old worker cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The subject had conjunctival and upper respiratory tract irritation, drowsiness, and impaired motor coordination, which resolved within 5 hours. The symptoms are attributed to mixed xylene and butyl acetate poisoning, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapors, but with uncertainty as to the responsibility of a particular solvent (INRC, 2011).

### **ACUTE TOXICITY**

ATE (Inhalation - mists / dusts) of the mixture: 2.0 mg/l

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no relevant component) Not classified (no relevant component)

POLY(HEXAMETHYLENE DIISOCYANATE)

LD50 (Oral): > 5000 mg/kg rat

1-METHYL-2-METHOXYETHYL ACETATE

LD50 (Dermal): > 5000 mg/kg Rat LD50 (Oral): 8530 mg/kg Rat

N-BUTYL ACETATE

 LD50 (Dermal):
 > 5000 mg/kg Rabbit

 LD50 (Oral):
 > 6400 mg/kg Rat

 LC50 (Vapour inhalation):
 21.1 mg/l/4h Rat

HEXAMETHYLENE-1,6-DIISOCYANATE

LC50 (Vapour inhalation): 0.124 mg/l/4h Rat

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SKIN CORROSION / SKIN IRRITATION
Repeated exposure may cause dryness and cracking of the skin.
SERIOUS EYE DAMAGE / EYE IRRITATION
It does not meet the classification criteria for this hazard class
RESPIRATORY OR SKIN SENSITIZATION
Skin sensitiser
MUTAGENICITY ON GERM CELLS
It does not meet the classification criteria for this hazard class
CARCINOGENICITY
It does not meet the classification criteria for this hazard class

# REPRODUCTION TOXICITY

It does not meet the classification criteria for this hazard class

# SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

May irritate the respiratory tract

May cause drowsiness or dizziness

# SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

It does not meet the classification criteria for this hazard class

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### DANGER IN CASE OF ASPIRATION

Does not meet the classification criteria for this hazard class Viscosity: >20.5 mm2/sec (40°C)

#### 11.2. Information about other hazards

Based on available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health being evaluated.

# **SECTION 12. Ecological information**

Use according to good working practices, avoiding dispersing the product into the environment. Notify the competent authorities if the product has reached watercourses or if it has contaminated the soil or vegetation.

# 12.1. Toxicity

1-METHYL-2-METHOXYETHYL ACETATE

LC50 - Fish > 100 mg/l/96h Onchoryncus mykiss
EC50 - Crustaceans > 100 mg/l/48h Daphnia magna

EC50 - Algae / Aquatic Plants > 100 mg/l/72h

N-BUTYL ACETATE

LC50 - Pisces 18 mg/l/96h Pimephales promelas 44

EC50 - Crustaceans mg/l/48h Daphnia magna

EC50 - Algae / Aquatic Plants 648 mg/l/72h Desmodesmus subspicatus

12.2. Persistence and degradability

POLY(HEXAMETHYLENE DIISOCYANATE)

Solubility in water 0.1 - 100 mg/l

Degradability: data not available

NOT rapidly degradable

1-METHYL-2-METHOXYETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable ISOPROPYL ACETATE

Solubility in water > 10000 mg/l

N-BUTYL ACETATE

Solubility in water 1000 - 10000 mg/l

HEXAMETHYLENE-1,6-DIISOCYANATE

NOT rapidly degradable

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### 12.3. Bioaccumulative potential

POLY(HEXAMETHYLENE DIISOCYANATE)

Partition coefficient: n-octanol/water BCF 5.54 367.7

1-METHYL-2-METHOXYETHYL ACETATE

Partition coefficient: n-octanol/water 1,2

ISOPROPYL ACETATE

Partition coefficient: n-octanol/water 1.03

N-BUTYL ACETATE

Partition coefficient: n-octanol/water BCF 2,3

15.3

HEXAMETHYLENE-1,6-DIISOCYANATE

Partition coefficient: n-octanol/water BCF 3.2

3.2

# 12.4. Mobility in soil

POLY(HEXAMETHYLENE DIISOCYANATE)

Partition coefficient: soil/water 7.3

N-BUTYL ACETATE

Partition coefficient: soil/water < 3

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

Based on available data, the product does not contain PBT or vPvB substances in percentages ≥ 0.1%.

# 12.6. Endocrine disrupting properties

Based on available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on the environment being evaluated.

# 12.7. Other adverse effects

Information not available

# **SECTION 13. Disposal Considerations**

# 13.1. Waste treatment methods

Reuse if possible. Product residues are to be considered hazardous special waste. The dangerousness of waste that partly contains this product must be assessed based on current legislative provisions.

Disposal must be entrusted to a company authorized to manage waste, in compliance with national and possibly local regulations. Transport of waste may be subject to ADR.



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#### CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

# **SECTION 14. Transportation Information**

# 14.1. UN number or ID number

ADR/RID, IMDG, IATA: 1263

# 14.2. Official UN shipping name

ADR / RID: MATERIALS SIMILAR TO PAINTS IMDG: PAINT RELATED MATERIAL IATA: PAINT RELATED MATERIAL

# 14.3. Transport hazard classes

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



# 14.4. Packing group

ADR/RID, IMDG, IATA: III

### 14.5. Dangers for the environment

ADR / RID: NO IMDG: NO IATA:

# 14.6. Special precautions for users

ADR / RID: HIN - Kemler: 30 Amount Code of Limited: 5 L restriction in gallery: (D/E)

Special Arrangement: 163, 367, 650

IMDG: EMS: FE,SELF Amount Limited: 5 L

IATA: Cargo: Amount maximum: Packaging: 366 220 L

> Pass.: Amount maximum: 60

Special Provision: A3, A72,

A192

Instructions

Packaging: 355

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#### 14.7. Maritime transport in bulk in accordance with IMO acts

Information not relevant

# **SECTION 15. Regulatory information**

### 15.1. Health, safety and environmental laws and regulations specific for the substance or mixture

Seveso category - Directive 2012/18/EU: P5c

Restrictions relating to the product or substances contained according to Annex XVII Regulation (EC) 1907/2006

Product

Point 3 - 40

Substances contained

Point 75

Regulation (EU) 2019/1148 - relating to the placing on the market and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

Based on available data, the product does not contain SVHC substances in percentages  $\geq$  0.1%.

Substances subject to authorization (Annex XIV REACH)

None

Substances subject to export notification requirements Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Sanitary checks

Workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out in accordance with the provisions of the art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

VOC (Directive 2004/42/EC):

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High performance two-component paints.

Legislative Decree 152/2006 and subsequent amendments

Emissions according to Part V Annex I:

 TAB. D
 Class I
 74.00%

 TAB. D
 Class IV
 18.00%

#### 15.2. Chemical safety assessment

A chemical safety assessment was carried out for the following substances contained:

POLY(HEXAMETHYLENE DIISOCYANATE)

1-METHYL-2-METHOXYETHYL ACETATE

N-BUTYL ACETATE

HEXAMETHYLENE-1,6-DIISOCYANATE

### **SECTION 16. Other information**

Text of the hazard statements (H) mentioned in sections 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2

Flam. Liq. 3 Flammable liquid, category 3

Acute Tox. 1 Acute toxicity, category 1 Acute

Acute Tox. 4 toxicity, category 4 Eye irritation,

Eye Irrit. 2 category 2 Skin irritation,

Skin Irrit. 2 category 2

STOT IF 3 Specific target organ toxicity - single exposure, category 3 Respiratory

Sens. Manager 1 sensitization, category 1

Skin Sens. 1 Skin sensitization, category 1 Highly

H225 flammable liquid and vapour.H226 Flammable liquid and vapour.

H330 Fatal if inhaled.H302 Harmful if ingested.H332 Harmful if inhaled.

**H319** Causes serious eye irritation.

**H315** Causes skin irritation.

**H335** May irritate the respiratory tract.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.H336 May cause drowsiness or dizziness.

**EUH066** Repeated exposure may cause dryness and cracking of the skin.



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#### Decoding usage descriptors:

LCS PW Widespread use by professional operators Coatings PC 9a and paints, thinners, pickling solutions Application PROC 10 with rollers or brushes

PROC 11 Non-industrial spray applications PROC Industrial spray applications

#### LEGEND:

- ADR: European Agreement for the transport of dangerous goods by road
- CAS: Chemical Abstract Service Number
- CE: Identification number in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived no-effect level
- EC50: Concentration that gives effect to 50% of the population subject to testing
- EmS: Emergency Schedule
- GHS: Globally Harmonized System for the Classification and Labeling of Chemical Products
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Immobilization concentration of 50% of the population subject to testing
- IMDG: International Maritime Code for the Transport of Dangerous Goods
- IMO: International Maritime Organization
- INDEX: Identification number in Annex VI of CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predictable no-effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulations for the international transport of dangerous goods by train
- STA: Acute Toxicity Estimate
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded during any moment of occupational exposure.
- TWA: Weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulating according to REACH
- WGK: Aquatic hazard class (Germany).

#### **GENERAL BIBLIOGRAPHY:**

- 1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
- 2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
- 3. Regulation (EU) 2020/878 (Annex II of the REACH Regulation)
- 4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
- 5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
- 6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
- 7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
- 8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
- 9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
- 10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
- 11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP) 22. Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology



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- NI Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA Agency website
- Database of SDS models of chemical substances Ministry of Health and Istituto Superiore di Sanità

#### Note for the user:

The information contained in this sheet is based on the knowledge available to us at the date of the last version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document should not be interpreted as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. We do not assume responsibility for improper use.

Provide adequate training to personnel assigned to the use of chemical

products. CLASSIFICATION CALCULATION METHODS

Chemical-physical hazards: The classification of the product was derived from the criteria established by the CLP Regulation Annex I Part 2. The methods of evaluation of the chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on the calculation methods in Annex I of CLP Part 3, unless otherwise indicated in section 11.

Environmental hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 4, unless otherwise indicated in section 12.

Changes compared to the previous revision Changes have been made to the following sections: 01 / 02 / 03 / 04 / 07 / 08 / 09 / 10 / 11 / 12 / 15 / 16.