



Printing: 12/01/2023 Date of compilation: 11/02/2016 Revised: 30/11/2022 Version: 5 (Replaced 4)

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifier:** POLYESTER RESIN

Other means of identification:

**UFI:** 1NV2-C0C1-M00T-E2FX

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

Relevant uses: Car repair. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3

#### 1.3 Details of the supplier of the safety data sheet:

Troton Sp. z o.o. Ząbrowo 14A

78-120 Gościno - Zachodniopomorskie - Polska Phone: +48 94 35 123 94 - Fax: +48 94 35 126 22

troton@troton.com.pl www.troton.pl / www.troton.eu

**1.4 Emergency telephone number:** ( 8am-4pm)+48 094 35 123 94; 112

# SECTION 2: HAZARDS IDENTIFICATION \*\*

#### 2.1 Classification of the substance or mixture:

# CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412

Asp. Tox. 1: Aspiration hazard, Category 1, H304 Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Repr. 2: Reproductive toxicity, Category 2, H361d Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

STOT RE 1: Specific target organ toxicity — Repeated exposure, Hazard Category 1 (Inhalation), H372

STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

# 2.2 Label elements:

# CLP Regulation (EC) No 1272/2008:

#### Danger







#### **Hazard statements:**

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Liq. 3: H226 - Flammable liquid and vapour.

Repr. 2: H361d - Suspected of damaging the unborn child.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (Inhalation).

STOT SE 3: H335 - May cause respiratory irritation.

**Precautionary statements:** 

<sup>\*\*</sup> Changes with regards to the previous version

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# SECTION 2: HAZARDS IDENTIFICATION \*\* (continued)

P201: Obtain special instructions before use.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

# Substances that contribute to the classification

styrene; maleic anhydride

#### 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

Endocrine-disrupting properties: The product fails to meet the criteria.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\*

#### 3.1 Substance:

Non-applicable

#### 3.2 Mixture:

Chemical description: Mixture composed of chemical products

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification Chemical name/Classification				
CAS:	100-42-5	styrene <sup>(1)</sup>		Self-classified	
EC: Index: REACH:	202-851-5 601-026-00-0 01-2119457861-32- XXXX	Regulation 1272/2008	cute Tox. 4: H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Eye Irrit. 2: 319; Flam. Liq. 3: H226; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 1: H372; TOT SE 3: H335 - Danger	(1) (8) (\$\sqrt{\sin\sin\sin\sin\sin\sin\sin\sin\sin\sin	25 - <50 %
CAS:	91-66-7	N,N-diethylaniline(1)		ATP CLP00	
Index:		Acute Tox. 3: H301+H311+H331; Aquatic Chronic 2: H411; STOT RE 2: H373 - Danger	<b>⋄ ♦</b>	<1 %	
CAS:	108-31-6	maleic anhydride(1)		ATP ATP13	
EC: Index:	203-571-6 607-096-00-9 01-2119472428-31- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318; Resp. Sens. 1: H334; Skin Corr. 1B: H314; Skin Sens. 1A: H317; STOT RE 1: H372; EUH071 - Danger		<1 %

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

## Other information:

Identification	Specific concentration limit
maleic anhydride CAS: 108-31-6 EC: 203-571-6	% (w/w) >=0,001: Skin Sens. 1A - H317

<sup>\*\*</sup> Changes with regards to the previous version

# **SECTION 4: FIRST AID MEASURES**

## 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

#### By inhalation:

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# SECTION 4: FIRST AID MEASURES (continued)

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

#### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

## By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

#### 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

# **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media:

## Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2).

# Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

# 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

# **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

## For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

#### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

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# SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

## 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

#### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 Reference to other sections:

See sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

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

A.- Technical measures for storage

Minimum Temp.: 15 °C

Maximum Temp.: 25 °C

Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

# 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

## **DNEL (Workers):**





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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

	Short exposure		Long exposure		
Identification		Systemic	Local	Systemic	Local
styrene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 100-42-5	Dermal	Non-applicable	Non-applicable	406 mg/kg	Non-applicable
EC: 202-851-5	Inhalation	289 mg/m <sup>3</sup>	306 mg/m <sup>3</sup>	85 mg/m <sup>3</sup>	Non-applicable
N,N-diethylaniline	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 91-66-7	Dermal	Non-applicable	Non-applicable	7 mg/kg	Non-applicable
EC: 202-088-8	Inhalation	Non-applicable	Non-applicable	0,0616 mg/m <sup>3</sup>	Non-applicable
maleic anhydride	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 108-31-6	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 203-571-6	Inhalation	0,2 mg/m <sup>3</sup>	0,2 mg/m <sup>3</sup>	0,081 mg/m <sup>3</sup>	0,081 mg/m <sup>3</sup>

## **DNEL (General population):**

		Short (	exposure	Long e	exposure
Identification		Systemic	Local	Systemic	Local
styrene	Oral	Non-applicable	Non-applicable	2,1 mg/kg	Non-applicable
CAS: 100-42-5	Dermal	Non-applicable	Non-applicable	343 mg/kg	Non-applicable
EC: 202-851-5	Inhalation	174,25 mg/m <sup>3</sup>	182,75 mg/m <sup>3</sup>	10,2 mg/m <sup>3</sup>	Non-applicable
N,N-diethylaniline	Oral	Non-applicable	Non-applicable	0,0167 mg/kg	Non-applicable
CAS: 91-66-7	Dermal	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
EC: 202-088-8	Inhalation	Non-applicable	Non-applicable	0,011 mg/m <sup>3</sup>	Non-applicable

#### PNEC:

111201				
Identification				
styrene	STP	5 mg/L	Fresh water	0,028 mg/L
CAS: 100-42-5	Soil	0,2 mg/kg	Marine water	0,014 mg/L
EC: 202-851-5	Intermittent	0,04 mg/L	Sediment (Fresh water)	0,614 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,307 mg/kg
N,N-diethylaniline	STP	0,018 mg/L	Fresh water	0,00936 mg/L
CAS: 91-66-7	Soil	0,498 mg/kg	Marine water	0,000936 mg/L
EC: 202-088-8	Intermittent	0,0742 mg/L	Sediment (Fresh water)	2,52 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,252 mg/kg
maleic anhydride	STP	44,6 mg/L	Fresh water	0,038 mg/L
CAS: 108-31-6	Soil	0,037 mg/kg	Marine water	0,004 mg/L
EC: 203-571-6	Intermittent	0,379 mg/L	Sediment (Fresh water)	0,296 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,03 mg/kg

## 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 2016/425/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	CAT III	EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands





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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	NON-disposable chemical protective gloves	CAT III	EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN ISO 21420:2020	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

# D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Face shield	CATII	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

## E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	CAT III	EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	CAT III	EN ISO 13287:2020 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

# F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
+	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>-</b>    ♦	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

## **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

# Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 45,14 % weight V.O.C. density at 20 °C: 395 kg/m $^3$  (395 g/L)

Average carbon number: 8,01

Average molecular weight: 104,34 g/mol

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES \*\*

# 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C: Liquid
Appearance: Fluid

 ${}^*\mbox{Not}$  relevant due to the nature of the product, not providing information property of its hazards.

<sup>\*\*</sup> Changes with regards to the previous version





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# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES \*\* (continued)

Colour: Yellow
Odour: Aromatic

Odour threshold: Non-applicable \*

Volatility:

Boiling point at atmospheric pressure: 140 °C Vapour pressure at 20 °C: 2135 Pa

Vapour pressure at 50 °C: 11250,07 Pa (11,25 kPa)

Evaporation rate at 20 °C: Non-applicable \*

**Product description:** 

Density at 20 °C: 1900 kg/m³
Relative density at 20 °C: Non-applicable \*

Dynamic viscosity at 20 °C: 0,98 cP Kinematic viscosity at 20 °C: 1,01 mm<sup>2</sup>/s Kinematic viscosity at 40 °C: <20,5 mm<sup>2</sup>/s Concentration: Non-applicable \* pH: Non-applicable \* Vapour density at 20 °C: Non-applicable \* Partition coefficient n-octanol/water 20 °C: Non-applicable \* Solubility in water at 20 °C: Non-applicable \* Solubility properties: Non-applicable \* Decomposition temperature: Non-applicable \* Melting point/freezing point: Non-applicable \*

Flammability:

Flash Point: 32 °C

Flammability (solid, gas): Non-applicable \*

Autoignition temperature: 480 °C

Lower flammability limit: Not available

Upper flammability limit: Not available

Particle characteristics:

Median equivalent diameter: Non-applicable

# 9.2 Other information:

# Information with regard to physical hazard classes:

Explosive properties:

Oxidising properties:

Corrosive to metals:

Heat of combustion:

Aerosols-total percentage (by mass) of flammable

Non-applicable \*

Non-applicable \*

Non-applicable \*

components:

Other safety characteristics:

Surface tension at 20 °C:

Refraction index:

Non-applicable \*

Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

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## SECTION 10: STABILITY AND REACTIVITY (continued)

# 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

#### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

## 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

#### 10.6 Hazardous decomposition products:

Contains susbstances highly reactive and can auto-polymerize as a result of internal peroxide accumulation. The peroxides formed in these reactions are extremely shock- and heat-sensitive.

# SECTION 11: TOXICOLOGICAL INFORMATION \*\*

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

#### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

IARC: styrene (2A)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Suspected of damaging the unborn child.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
  - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

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# SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Serious health effects in the case of prolonged inhalation, including death, serious functional disorders or morphological changes of toxicological importance.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

The consumption of a considerable dose can cause pulmonary damage.

#### Other information:

Non-applicable

# Specific toxicology information on the substances:

Identification		Acute toxicity		Genus
styrene		LD50 oral	>2000 mg/kg	
CAS: 100-42-5		LD50 dermal	>2000 mg/kg	
EC: 202-851-5		LC50 inhalation	11,8 mg/L (4 h)	Rat
N,N-diethylaniline		LD50 oral	100 mg/kg (ATEi)	
CAS: 91-66-7		LD50 dermal	300 mg/kg (ATEi)	
EC: 202-088-8		LC50 inhalation	3 mg/L (ATEi)	
maleic anhydride		LD50 oral	>2000 mg/kg	
CAS: 108-31-6		LD50 dermal	>2000 mg/kg	
EC: 203-571-6		LC50 inhalation	>5 mg/L	

#### **Acute Toxicity Estimate (ATE mix):**

ATE mix		Ingredient(s) of unknown toxicity		
Oral 71428,57 mg/kg (Calculation method)		0 %		
Dermal	214285,71 mg/kg (Calculation method)	0 %		
Inhalation	25,91 mg/L (4 h) (Calculation method)	0 %		

## 11.2 Information on other hazards:

# **Endocrine disrupting properties**

Endocrine-disrupting properties: The product fails to meet the criteria.

# Other information

Non-applicable

# SECTION 12: ECOLOGICAL INFORMATION \*\*

The experimental information related to the eco-toxicological properties of the product itself is not available

# 12.1 Toxicity:

## **Acute toxicity:**

Identification	Concentration		Species	Genus
styrene	LC50	64,7 mg/L (96 h)	Carassius auratus	Fish
CAS: 100-42-5	EC50	4,7 mg/L (48 h)	Daphnia magna	Crustacean
EC: 202-851-5	EC50	67 mg/L (192 h)	Microcystis aeruginosa	Algae
N,N-diethylaniline	LC50	38,5 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 91-66-7	EC50	1,3 mg/L (48 h)	Daphnia magna	Crustacean
EC: 202-088-8	EC50	5,6 mg/L (72 h)	Scenedesmus subspicatus	Algae

# **Chronic toxicity:**

<sup>\*\*</sup> Changes with regards to the previous version

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# SECTION 12: ECOLOGICAL INFORMATION \*\* (continued)

Identification	Concentration		Species	Genus
styrene	NOEC	Non-applicable		
CAS: 100-42-5 EC: 202-851-5	NOEC	1,01 mg/L	Daphnia magna	Crustacean
N,N-diethylaniline	NOEC	1,252 mg/L	N/A	Fish
CAS: 91-66-7 EC: 202-088-8	NOEC	0,936 mg/L	Daphnia magna	Crustacean

# 12.2 Persistence and degradability:

# **Substance-specific information:**

Identification	Degradability		Biodegradability	
styrene	BOD5	1,96 g O2/g	Concentration	100 mg/L
CAS: 100-42-5	COD	2,8 g O2/g	Period	14 days
EC: 202-851-5	BOD5/COD	0,7	% Biodegradable	100 %

# 12.3 Bioaccumulative potential:

#### **Substance-specific information:**

Identification	Bioaccumulation potential		
styrene	BCF	14	
CAS: 100-42-5	Pow Log	2.95	
EC: 202-851-5	Potential	Low	
N,N-diethylaniline	BCF	161	
CAS: 91-66-7	Pow Log	3.31	
EC: 202-088-8	Potential	High	

# 12.4 Mobility in soil:

Identification	Absorption/desorption		Volati	lity
styrene	Koc	Non-applicable	Henry	Non-applicable
CAS: 100-42-5	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 202-851-5	Surface tension	3,21E-2 N/m (25 °C)	Moist soil	Non-applicable
N,N-diethylaniline	Koc	1500	Henry	19,25 Pa·m³/mol
CAS: 91-66-7	Conclusion	Low	Dry soil	No
EC: 202-088-8	Surface tension	3,376E-2 N/m (25 °C)	Moist soil	Yes
maleic anhydride	Koc	Non-applicable	Henry	Non-applicable
CAS: 108-31-6	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 203-571-6	Surface tension	1,673E-2 N/m (250,21 °C)	Moist soil	Non-applicable

# 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

# 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

## 12.7 Other adverse effects:

Not described

# SECTION 13: DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)	
	waste paint and varnish containing organic solvents or other hazardous substances packaging containing residues of or contaminated by hazardous substances	Dangerous	

# Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP3 Flammable, HP6 Acute Toxicity, HP10 Toxic for reproduction, HP4 Irritant — skin irritation and eye damage

# Waste management (disposal and evaluation):

<sup>\*\*</sup> Changes with regards to the previous version





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# SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

# SECTION 14: TRANSPORT INFORMATION

## Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

3

**14.1 UN number or ID number:** UN3269

**14.2 UN proper shipping name:** POLYESTER RESIN KIT, liquid base material

No

14.3 Transport hazard class(es): 3Labels: 314.4 Packing group: III

14.5 Environmental hazards:14.6 Special precautions for user

Special regulations: 236, 340
Tunnel restriction code: E

Physico-Chemical properties: see section 9

Limited quantities: 5 L

14.7 Maritime transport in bulk Non-applicable according to IMO

instruments:

## Transport of dangerous goods by sea:

With regard to IMDG 40-20:

**14.1 UN number or ID number:** UN3269

**14.2 UN proper shipping name:** POLYESTER RESIN KIT, liquid base material

 14.3 Transport hazard class(es):
 3

 Labels:
 3

 14.4 Packing group:
 III

14.5 Marine pollutant: No

14.6 Special precautions for user

Special regulations: 340, 236
EmS Codes: F-E, S-D
Physico-Chemical properties: see section 9

Limited quantities: 5 L

Segregation group: Non-applicable **14.7 Maritime transport in bulk** Non-applicable

according to IMO instruments:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2022:

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# SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number or ID number: UN3269

14.2 UN proper shipping name: POLYESTER RESIN KIT, liquid base material

14.3 Transport hazard class(es): 3

Labels:

TTT 14.4 Packing group: 14.5 Environmental hazards: Nο

14.6 Special precautions for user

Physico-Chemical properties: see section 9

14.7 Maritime transport in bulk

according to IMO instruments:

Non-applicable

## SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

#### Seveso III:

	Section	Description	Lower-tier requirements	Upper-tier requirements
ſ	P5c	FLAMMABLE LIQUIDS	5000	50000

### Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Shall not be used in:

—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

—games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

# Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

## Other legislation:

The product could be affected by sectorial legislation

# 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

# SECTION 16: OTHER INFORMATION \*\*

# Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

<sup>\*\*</sup> Changes with regards to the previous version

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## SECTION 16: OTHER INFORMATION \*\* (continued)

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

New declared substances

maleic anhydride (108-31-6)

N,N-diethylaniline (91-66-7)

styrene (100-42-5)

· Removed substances

styrene (100-42-5)

Substances that contribute to the classification (SECTION 2):

New declared substances

maleic anhydride (108-31-6)

styrene (100-42-5)

· Removed substances

styrene (100-42-5)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

Hazard statements

Information on basic physical and chemical properties (SECTION 9):

Flash Point

#### Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

H361d: Suspected of damaging the unborn child.

H372: Causes damage to organs through prolonged or repeated exposure (Inhalation).

H317: May cause an allergic skin reaction.

H304: May be fatal if swallowed and enters airways.

H226: Flammable liquid and vapour.

H319: Causes serious eye irritation.

## Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

## CLP Regulation (EC) No 1272/2008:

Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H332 - Harmful if inhaled.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Repr. 2: H361d - Suspected of damaging the unborn child.

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (Inhalation).

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: H335 - May cause respiratory irritation.

### Classification procedure:

Skin Irrit. 2: Calculation method

STOT SE 3: Calculation method

Aquatic Chronic 3: Calculation method

Repr. 2: Calculation method

STOT RE 1: Calculation method

Skin Sens. 1A: Calculation method Asp. Tox. 1: Calculation method

Flam. Liq. 3: Calculation method (2.6.4.3)

Eye Irrit. 2: Calculation method

### Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

<sup>\*\*</sup> Changes with regards to the previous version

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# SECTION 16: OTHER INFORMATION \*\* (continued)

## **Principal bibliographical sources:**

http://echa.europa.eu http://eur-lex.europa.eu

# **Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

<sup>\*\*</sup> Changes with regards to the previous version