

# SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878



## NOVABLACK MAGIC

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

#### 1.1. Product identifier

Product name : NOVABLACK MAGIC  
Registration number REACH : Not applicable (mixture)  
Product type REACH : Mixture

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

##### 1.2.1 Relevant identified uses

Filler  
Sealing compound

##### 1.2.2 Uses advised against

No uses advised against known

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

##### Supplier of the safety data sheet

Novatio\*  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 25 76 40  
☎ +32 14 22 02 66  
info@novatio.be  
\*NOVATIO is a registered trademark of Novatech International N.V.

##### Manufacturer of the product

Novatech International N.V.  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
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info@novatech.be

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :  
+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

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

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Flam. Liq.	category 3	H226: Flammable liquid and vapour.
Repr.	category 2	H361d: Suspected of damaging the unborn child.
STOT RE	category 1	H372: Causes damage to organs through prolonged or repeated exposure.
Skin Irrit.	category 2	H315: Causes skin irritation.
Eye Irrit.	category 2	H319: Causes serious eye irritation.

#### 2.2. Label elements



Contains: styrene.

##### Signal word

##### H-statements

H226  
H361d  
H372  
H315  
H319

Danger

Flammable liquid and vapour.  
Suspected of damaging the unborn child.  
Causes damage to organs through prolonged or repeated exposure.  
Causes skin irritation.  
Causes serious eye irritation.

##### P-statements

P210

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

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel

<http://www.big.be>

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P280	Wear protective gloves, protective clothing and eye protection/face protection.
P260	Do not breathe vapours/mist.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.

## 2.3. Other hazards

No other hazards known

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
styrene 01-2119457861-32	100-42-5 202-851-5	12.5% <C<20%	Flam. Liq. 3; H226 Repr. 2; H361d STOT RE 1; H372 Acute Tox. 4; H332 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Chronic 3; H412	(1)(2)(6)(10)	Constituent	

(1) For H- and EUH-statements in full: see section 16

(2) Substance with a Community workplace exposure limit

(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

#### After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

#### After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

#### After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

#### After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

#### 4.2.1 Acute symptoms

##### After inhalation:

No effects known.

##### After skin contact:

Tingling/irritation of the skin.

##### After eye contact:

Irritation of the eye tissue.

##### After ingestion:

No effects known.

#### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

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Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.  
Major fire: Class B foam (not alcohol-resistant).

## 5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.  
Major fire: Water; risk of puddle expansion.

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

On burning: release of harmful gases/vapours e.g.: carbon monoxide - carbon dioxide.

## 5.3. Advice for firefighters

### 5.3.1 Instructions:

Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

### 5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

## SECTION 6: Accidental release measures

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

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.

#### 6.1.1 Protective equipment for non-emergency personnel

See section 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034).

#### Suitable protective clothing

See section 8.2

### 6.2. Environmental precautions

Contain released product. Dam up the solid spill. Prevent spreading in sewers.

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

Cover the solid spill with inert absorbent material. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See section 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Observe very strict hygiene - avoid contact. Keep container tightly closed. Do not discharge the waste into the drain.

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

#### 7.2.1 Safe storage requirements:

Storage temperature: < 25 °C. Meet the legal requirements. Fireproof storeroom. Keep locked up. Unauthorized persons are not admitted. Keep container tightly closed.

#### 7.2.2 Keep away from:

Heat sources, ignition sources.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

#### Belgium

Styrène (monomère)	Time-weighted average exposure limit 8 h	25 ppm
	Time-weighted average exposure limit 8 h	108 mg/m <sup>3</sup>
	Short time value	50 ppm
	Short time value	216 mg/m <sup>3</sup>

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## France

Styrène	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	23.3 ppm
	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	100 mg/m <sup>3</sup>
	Short time value (VRI: Valeur réglementaire indicative)	46.6 ppm
	Short time value (VRI: Valeur réglementaire indicative)	200 mg/m <sup>3</sup>

## Germany

Styrol	Time-weighted average exposure limit 8 h (TRGS 900)	20 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	86 mg/m <sup>3</sup>

## UK

Styrene	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	100 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	430 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	250 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1080 mg/m <sup>3</sup>

## USA (TLV-ACGIH)

Styrene	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	10 ppm
	Short time value (TLV - Adopted Value)	20 ppm

## b) National biological limit values

If limit values are applicable and available these will be listed below.

### Germany

Styrol (Mandelsäure plus Phenylglyoxylsäure)	Urin: bei langzeitexposition: am schichtende nach mehreren vorangegangenen schichten expositionsende, bzw. schichtende	600 mg/g Kreatinin	
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### USA (BEI-ACGIH)

Styrene (Mandelic acid plus phenylglyoxylic acid)	Urine: end of shift	400 mg/g creatinine	Nonspecific
Styrene (Styrene)	Urine: end of shift	40 µg/L	

## 8.1.2 Sampling methods

Product name	Test	Number
Styrene (Diffusive Samplers)	OSHA	1014
Styrene (organic and inorganic gases by Extractive FTIR)	NIOSH	3800
Styrene (Phenylethylene) (Hydrocarbons, aromatic)	NIOSH	1501
Styrene	NON	37
Styrene	OSHA	89
Styrene	OSHA	9

## 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

## 8.1.4 Threshold values

### DNEL/DMEL - Workers

styrene

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	85 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	289 mg/m <sup>3</sup>	
	Acute local effects inhalation	306 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	406 mg/kg bw/day	

### DNEL/DMEL - General population

styrene

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	10.2 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	174.25 mg/m <sup>3</sup>	
	Acute local effects inhalation	182.75 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	343 mg/kg bw/day	
	Long-term systemic effects oral	2.1 mg/kg bw/day	

### PNEC

styrene

Compartments	Value	Remark
Fresh water	0.028 mg/l	
Marine water	0.014 mg/l	
Fresh water (intermittent releases)	0.04 mg/l	
STP	5 mg/l	
Fresh water sediment	0.614 mg/kg sediment dw	
Marine water sediment	0.307 mg/kg sediment dw	
Soil	0.2 mg/kg soil dw	

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## 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### 8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Full face mask with filter type A. High vapour/gas concentration: self-contained breathing apparatus (EN 136 + EN 137).

#### b) Hand protection:

Protective gloves against chemicals (EN 374).

Materials	Measured breakthrough time	Thickness	Protection index	Remark
butyl rubber	> 480 minutes	0.4 mm	Class 6	

#### c) Eye protection:

Combined eye and respiratory protection.

#### d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

### 8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

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

Physical form	Paste
Viscosity	Viscous
Odour	Characteristic odour
Odour threshold	No data available in the literature
Colour	Black
Particle size	Not applicable (liquid)
Explosion limits	1.2 - 8.9 vol %
Flammability	Flammable liquid and vapour.
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available in the literature
Kinematic viscosity	No data available in the literature
Melting point	No data available in the literature
Boiling point	145 °C
Relative vapour density	No data available in the literature
Vapour pressure	6 hPa ; 20 °C
Solubility	Water ; insoluble
Relative density	2.2 ; 20 °C
Absolute density	2200 kg/m <sup>3</sup> ; 20 °C
Decomposition temperature	No data available in the literature
Auto-ignition temperature	480 °C
Flash point	31 °C
pH	Not applicable (non-soluble in water)

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

May be ignited by sparks.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

#### Precautionary measures

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges.

# NOVABLACK MAGIC

## 10.5. Incompatible materials

No data available.

## 10.6. Hazardous decomposition products

On burning: release of harmful gases/vapours e.g.: carbon monoxide - carbon dioxide.

## SECTION 11: Toxicological information

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

#### 11.1.1 Test results

##### Acute toxicity

###### NOVABLACK MAGIC

No (test)data on the mixture available

Judgement is based on the relevant ingredients

###### styrene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		> 6000 mg/kg bw		Hamster (male)	Weight of evidence	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Inhalation (vapours)	LC50		11.8 mg/l air	4 h	Rat	Weight of evidence	

##### Conclusion

Not classified for acute toxicity

##### Corrosion/irritation

###### NOVABLACK MAGIC

No (test)data on the mixture available

Classification is based on the relevant ingredients

###### styrene

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating; category 2					Annex VI	
Skin	Irritating; category 2					Annex VI	
Inhalation	Irritating; STOT SE cat.3					Literature study	

##### Conclusion

Causes skin irritation.

Causes serious eye irritation.

Not classified as irritating to the respiratory system

##### Respiratory or skin sensitisation

###### NOVABLACK MAGIC

No (test)data on the mixture available

Judgement is based on the relevant ingredients

##### Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

##### Specific target organ toxicity

###### NOVABLACK MAGIC

No (test)data on the mixture available

Classification is based on the relevant ingredients

###### styrene

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL		1000 mg/kg bw/day		No effect	78 week(s) - 103 week(s)	Rat (male / female)	Experimental value
Inhalation (vapours)	NOAEC		0.85 mg/l air	Hearing organs	No effect	13 weeks (6h / day, 5 days / week)	Rat (male)	Experimental value
Inhalation (vapours)	LOAEC		3.41 mg/l	Hearing organs	Histopathological changes	13 weeks (6h / day, 5 days / week)	Rat (male)	Experimental value

##### Conclusion

Causes damage to organs through prolonged or repeated exposure.

Not classified as sub-chronically toxic in contact with skin

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Not classified as sub-chronically toxic if swallowed

## Mutagenicity (in vitro)

### NOVABLACK MAGIC

No (test) data on the mixture available

Judgement is based on the relevant ingredients

styrene

Result	Method	Test substrate	Effect	Value determination	Remark
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	
Positive	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	
Positive	Equivalent to OECD 473	Human lymphocytes		Experimental value	

## Mutagenicity (in vivo)

### NOVABLACK MAGIC

No (test) data on the mixture available

Judgement is based on the relevant ingredients

styrene

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 474	1 days (6h / day) - 21 days (6h / day)	Mouse (male)		Experimental value

### Conclusion

Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

### NOVABLACK MAGIC

No (test) data on the mixture available

Judgement is based on the relevant ingredients

styrene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	≥ 4.34 mg/l air	104 weeks (6h / day, 5 days / week)	Rat (male / female)	No carcinogenic effect		Experimental value
Oral	NOAEL		≥ 2000 mg/kg bw/day	78 week(s) - 103 week(s)	Rat (male / female)	No carcinogenic effect		Experimental value

### Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

### NOVABLACK MAGIC

No (test) data on the mixture available

Classification is based on the relevant ingredients

styrene

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	≥ 2.556 mg/l air	10 days (7h / day)	Rat	No effect		Experimental value
			category 2			Teratogenicity		Annex VI
Maternal toxicity	LOAEC	Equivalent to OECD 414	1.278 mg/l air	10 days (7h / day)	Rat	Reduced body weight and food consumption		Experimental value
Effects on fertility	Dose level	OECD 416	2.13 mg/l air	70 days (6h / day)	Rat (male / female)	No effect		Experimental value

### Conclusion

Suspected of damaging the unborn child.

## Toxicity other effects

### NOVABLACK MAGIC

No (test) data on the mixture available

## Chronic effects from short and long-term exposure

### NOVABLACK MAGIC

Skin rash/inflammation. Auditory disturbances.

## 11.2. Information on other hazards

No evidence of endocrine disrupting properties

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# NOVABLACK MAGIC

## SECTION 12: Ecological information

### 12.1. Toxicity

#### NOVABLACK MAGIC

No (test) data on the mixture available

Judgement of the mixture is based on the relevant ingredients

styrene

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		4.02 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value
Acute toxicity crustacea	EC50	OECD 202	4.7 mg/l	48 h	Daphnia magna	Flow-through system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	EPA OTS 797.1050	4.9 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; GLP
	EC10	EPA OTS 797.1050	0.28 mg/l	96 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish	NOEC	ECOSAR	1 mg/l		Pisces			QSAR
Long-term toxicity aquatic crustacea	NOEC	OECD 211	1.01 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction
Toxicity aquatic micro-organisms	EC50		5.4 mg/l	5 minutes	Photobacterium phosphoreum	Static system	Salt water	Experimental value; Nominal concentration
	EC50	Equivalent to OECD 209	500 mg/l	30 minutes	Activated sludge	Static system	Fresh water	Experimental value; Nominal concentration

#### Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

### 12.2. Persistence and degradability

styrene

#### Biodegradation water

Method	Value	Duration	Value determination
ISO 9408	70.9 % - 100 %; GLP	28 day(s)	Experimental value

#### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
	7.2 h	5E5 /cm <sup>3</sup>	Experimental value

#### Biodegradation soil

Method	Value	Duration	Value determination
	16 % - 62 %	33 day(s)	Experimental value

#### Conclusion

##### Water

Contains readily biodegradable component(s)

### 12.3. Bioaccumulative potential

#### NOVABLACK MAGIC

##### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

styrene

##### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		2.96	25 °C	Experimental value

#### Conclusion

Does not contain bioaccumulative component(s)

### 12.4. Mobility in soil

styrene

##### (log) Koc

Parameter	Method	Value	Value determination
log Koc		2.55	Estimated value

#### Conclusion

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Contains component(s) with potential for mobility in the soil

## 12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

## 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

## 12.7. Other adverse effects

### NOVABLACK MAGIC

#### Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

#### Groundwater

Groundwater pollutant

styrene

#### Groundwater

Groundwater pollutant

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

##### European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09\* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste.

Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Should not be landfilled with household waste. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

#### 13.1.3 Packaging/Container

##### European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

### Road (ADR)

#### 14.1. UN number

UN number	3269
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#### 14.2. UN proper shipping name

Proper shipping name	polyester resin kit
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#### 14.3. Transport hazard class(es)

Hazard identification number	
Class	3
Classification code	F3

#### 14.4. Packing group

Packing group	III
Labels	3

#### 14.5. Environmental hazards

Environmentally hazardous substance mark	no
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#### 14.6. Special precautions for user

Special provisions	236
Special provisions	340
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

### Rail (RID)

#### 14.1. UN number

UN number	3269
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#### 14.2. UN proper shipping name

Proper shipping name	polyester resin kit
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#### 14.3. Transport hazard class(es)

Hazard identification number	30
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# NOVABLACK MAGIC

Class	3
Classification code	F3
<b>14.4. Packing group</b>	
Packing group	III
Labels	3
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance mark	no
<b>14.6. Special precautions for user</b>	
Special provisions	236
Special provisions	340
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Inland waterways (ADN)

<b>14.1. UN number</b>	
UN number	3269
<b>14.2. UN proper shipping name</b>	
Proper shipping name	polyester resin kit
<b>14.3. Transport hazard class(es)</b>	
Class	3
Classification code	F3
<b>14.4. Packing group</b>	
Packing group	III
Labels	3
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance mark	no
<b>14.6. Special precautions for user</b>	
Special provisions	236
Special provisions	340
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Sea (IMDG/IMSBC)

<b>14.1. UN number</b>	
UN number	3269
<b>14.2. UN proper shipping name</b>	
Proper shipping name	polyester resin kit
<b>14.3. Transport hazard class(es)</b>	
Class	3
<b>14.4. Packing group</b>	
Packing group	III
Labels	3
<b>14.5. Environmental hazards</b>	
Marine pollutant	-
Environmentally hazardous substance mark	no
<b>14.6. Special precautions for user</b>	
Special provisions	236
Special provisions	340
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	
Annex II of MARPOL 73/78	Not applicable, based on available data

## Air (ICAO-TI/IATA-DGR)

<b>14.1. UN number</b>	
UN number	3269
<b>14.2. UN proper shipping name</b>	
Proper shipping name	polyester resin kit
<b>14.3. Transport hazard class(es)</b>	
Class	3
<b>14.4. Packing group</b>	
Packing group	III
Labels	3
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance mark	no
<b>14.6. Special precautions for user</b>	
Special provisions	A163
Special provisions	A66
<b>Passenger and cargo transport</b>	
Limited quantities: maximum net quantity per packaging	5 kg

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## SECTION 15: Regulatory information

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

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
13.6 %	
303.1 g/l	

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
· styrene	Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	1. 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, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
· styrene	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.	1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: — metallic glitter intended mainly for decoration, — artificial snow and frost, — "whoopee" cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs. 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only". 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC. 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
· styrene	Substances falling within one or more of the following points: (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008: — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation — skin sensitiser category 1, 1A or 1B — skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2 — serious eye damage category 1 or eye irritant category 2	1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances: (a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight; (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight; (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight; (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than: (i) 0,1 % by weight, if the substance is used solely as a pH regulator;

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(b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council  
 (c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex.  
 The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.

(ii) 0,01 % by weight, in all other cases;  
 (e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (\*), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;  
 (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:  
 (i) "Rinse-off products";  
 (ii) "Not to be used in products applied on mucous membranes";  
 (iii) "Not to be used in eye products";  
 (g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;  
 (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.

2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as L 423/12 EN Official Journal of the European Union 15.12.2020 permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.

3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.

4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:  
 (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);  
 (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).

5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.

6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.

7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:  
 (a) the statement "Mixture for use in tattoos or permanent make-up";  
 (b) a reference number to uniquely identify the batch;  
 (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation.  
 "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;  
 (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;  
 (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;  
 (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;  
 (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and marked in a way that is indelible.

The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use. Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.

8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-

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001-8).  
10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

## National legislation Belgium

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No data available

#### styrene

Résorption peau	Styrène (monomère); D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air.
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## National legislation The Netherlands

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Waterbezwaarlijkheid	B (3); Algemene Beoordelingsmethodiek (ABM)
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#### styrene

SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling)	styreen; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2
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## National legislation France

### NOVABLACK MAGIC

No data available

#### styrene

Catégorie toxique pour la reproduction	Styrène; R2
Risque de pénétration percutanée	Styrène; Risquedepénétrationpercutanée

## National legislation Germany

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Lagerklasse (TRGS510)	3: Entzündbare Flüssigkeiten
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WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
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#### styrene

TA-Luft	5.2.5/I
TRGS900 - Risiko der Fruchtschädigung	Styrol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden

## National legislation United Kingdom

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No data available

## Other relevant data

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No data available

#### styrene

IARC - classification	2A; Styrene
TLV - Carcinogen	Styrene; A3

## 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

## SECTION 16: Other information

### Full text of any H- and EUH-statements referred to under section 3:

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H372 Causes damage to organs (ears (hearing damage)) through prolonged or repeated exposure if inhaled.
- H412 Harmful to aquatic life with long lasting effects.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)

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DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.