

# Safety Data Sheet

## P02 POLIBONDER SOFT LIGHT AMC



Safety Data Sheet dated 15/4/2021, version 4

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

- 1.1. Product identifier  
Mixture identification:  
Trade code and name: P02 POLIBONDER SOFT LIGHT AMC
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
Polyester filler for auto-body and nautical applications.  
Only for professional use.
- 1.3. Details of the supplier of the safety data sheet  
Company:  
Industria Chimica Reggiana I.C.R. Spa  
(subject to management and coordination by sole shareholder company PPG Industries Inc.)  
Via Gasparini, 7 42124 REGGIO EMILIA Italia  
Tel. +39 0522/517803 Fax +39 0522/514384  
Competent person responsible for the safety data sheet:  
sdsre@icrsprint.it
- 1.4. Emergency telephone number  
Tel. +39 0522-517803 or NHS 111 - dial 111

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture  
EC regulation criteria 1272/2008 (CLP)
  - ⚠ Warning, Flam. Liq. 3, Flammable liquid and vapour.
  - ⚠ Warning, Skin Irrit. 2, Causes skin irritation.
  - ⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.
  - ⚠ Warning, Skin Sens. 1A, May cause an allergic skin reaction.
  - ⚠ Warning, Repr. 2, Suspected of damaging the unborn child.
  - ⚠ Danger, STOT RE 1, Causes damage to ear through prolonged or repeated exposure via inhalation..

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:  
No other hazards
- 2.2. Label elements  
Hazard pictograms:



- Danger
- Hazard statements:
- H226 Flammable liquid and vapour.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H317 May cause an allergic skin reaction.
  - H361d Suspected of damaging the unborn child.
  - H372 Causes damage to ear through prolonged or repeated exposure via inhalation..
  - H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements:
- P202 Do not handle until all safety precautions have been read and understood.
  - P260.F Do not breathe vapours.

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P280 Wear protective gloves and eye protection.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Special Provisions:

None

Contains

maleic anhydride

styrene

Cobalt bis(2-ethylhexanoate)

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

### SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 20% - < 25%	styrene	Index number: 601-026-00-0 CAS: 100-42-5 EC: 202-851-5 REACH No.: 01-2119457861-32	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.7/2 Repr. 2 H361d ⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.9/1 STOT RE 1 H372 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.8/3 STOT SE 3 H335 4.1/C3 Aquatic Chronic 3 H412
>= 0.1% - < 0.25%	butanone	Index number: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 REACH No.: 01-2119457290-43	⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.8/3 STOT SE 3 H336 EUH066
>= 0.1% - < 0.25%	Xylene	Index number: 601-022-01-6 CAS: 1330-20-7 EC: 215-535-7 REACH No.: 01-2119488216-32	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.9/2 STOT RE 2 H373 ⚠ 3.1/4/Dermal Acute Tox. 4 H312 ⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.8/3 STOT SE 3 H335 4.1/C3 Aquatic Chronic 3 H412
>= 0.1% - < 0.25%	2,2,4-trimethyl-1,3-pentanediol diisobutyrate	CAS: 6846-50-0 EC: 229-934-9	⚠ 3.7/2 Repr. 2 H361d 4.1/C3 Aquatic Chronic 3 H412

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>= 0.01% - < 0.1%	Cobalt bis(2-ethylhexanoate)	CAS: 136-52-7 EC: 205-250-6 REACH No.: 01-2119524678-29	<ul style="list-style-type: none"> <li>⚠ 3.7/1B Repr. 1B H360</li> <li>⚠ 3.3/2 Eye Irrit. 2 H319</li> <li>⚠ 3.4.2/1A Skin Sens. 1A H317</li> <li>⚠ 4.1/A1 Aquatic Acute 1 H400</li> <li>⚠ 4.1/C3 Aquatic Chronic 3 H412</li> </ul>
>= 0.01% - < 0.1%	dichlone (ISO); 2,3-dichloro-1,4-naphthoquinone	Index number: 606-018-00-0 CAS: 117-80-6 EC: 204-210-5	<ul style="list-style-type: none"> <li>⚠ 3.1/4/Oral Acute Tox. 4 H302</li> <li>⚠ 3.2/2 Skin Irrit. 2 H315</li> <li>⚠ 3.3/1 Eye Dam. 1 H318</li> <li>⚠ 3.4.2/1 Skin Sens. 1 H317</li> <li>⚠ 4.1/A1 Aquatic Acute 1 H400 M=10.</li> <li>⚠ 4.1/C1 Aquatic Chronic 1 H410 M=10.</li> </ul>
>= 0.01% - < 0.1%	maleic anhydride	Index number: 607-096-00-9 CAS: 108-31-6 EC: 203-571-6 REACH No.: 01-2119472428-31	<ul style="list-style-type: none"> <li>⚠ 3.1/4/Oral Acute Tox. 4 H302</li> <li>⚠ 3.9/1 STOT RE 1 H372</li> <li>⚠ 3.2/1B Skin Corr. 1B H314</li> <li>⚠ 3.3/1 Eye Dam. 1 H318</li> <li>⚠ 3.4.1/1 Resp. Sens. 1 H334</li> <li>⚠ 3.4.2/1A Skin Sens. 1A H317</li> <li>EUH071</li> </ul>

This product is not classified H304 due to its high viscosity.

All component substances of this product have been registered under REACH or are exempt from REACH registration.

Substances in Section 3 not showing REACH registration codes are exempt from registration.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. If irritation persists: Get medical advice/attention.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for at least 15 minutes, then consult a medic immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

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

See section 11 for known symptoms and effects.

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

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In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

Do not use water jets. Water may not be effective fire fighting measure, however it can be used to cool closed

containers close to flames as to avoid bursting and exploding.

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke. Carbon oxides.

#### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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### SECTION 6: Accidental release measures

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

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

#### 6.4. Reference to other sections

See also section 8 and 13

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

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

Always keep in a well ventilated place.

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Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

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

See Point 1.2.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

styrene - CAS: 100-42-5

EU - TWA(8h): 85 mg/m<sup>3</sup>, 20 ppm - STEL(): 170 mg/m<sup>3</sup>, 40 ppm - Notes: Pelle

ACGIH - TWA(8h): 10 ppm - STEL: 20 ppm - Notes: OTO, A3, BEI - CNS and hearing impair, URT irr, peripheral neuropathy, visual disorders

Italy - TWA(8h): 20 ppm - STEL: 200 ppm

butanone - CAS: 78-93-3

Italy - TWA(8h): 600 mg/m<sup>3</sup>, 200 ppm - STEL: 900 mg/m<sup>3</sup>, 300 ppm

ACGIH - TWA(8h): 200 ppm - STEL: 300 ppm - Notes: BEI - URT irr, CNS and PNS impair

EU - TWA(8h): 600 mg/m<sup>3</sup>, 200 ppm - STEL: 900 mg/m<sup>3</sup>, 300 ppm

Xylene - CAS: 1330-20-7

Italy - TWA(8h): 221 mg/m<sup>3</sup>, 50 ppm - STEL(): 442 mg/m<sup>3</sup>, 100 ppm - Notes: Assorbito attraverso la pelle

ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

EU - TWA(8h): 221 mg/m<sup>3</sup>, 50 ppm - STEL: 442 mg/m<sup>3</sup>, 100 ppm - Notes: Skin

maleic anhydride - CAS: 108-31-6

ACGIH - TWA(8h): 0.01 mg/m<sup>3</sup> - Notes: (IFV), DSEN, RSEN, A4 - Resp sens

#### DNEL Exposure Limit Values

styrene - CAS: 100-42-5

Worker Professional: 406 mg/kg - Consumer: 343 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 2.1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 85 mg/m<sup>3</sup> - Consumer: 10.2 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 289 mg/m<sup>3</sup> - Consumer: 174.25 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 306 mg/m<sup>3</sup> - Consumer: 182.75 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

butanone - CAS: 78-93-3

Worker Professional: 1161 mg/kg - Consumer: 412 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 600 mg/m<sup>3</sup> - Consumer: 106 mg/l - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 31 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Xylene - CAS: 1330-20-7

Worker Professional: 442 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 212 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 77 mg/m<sup>3</sup> - Consumer: 14.8 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 212 mg/kg - Consumer: 125 mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)

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Worker Professional: 221 mg/m<sup>3</sup> - Consumer: 65.3 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term (repeated)

Consumer: 12.5 mg/kg/day - Exposure: Human Oral - Frequency: Long Term (repeated)

#### PNEC Exposure Limit Values

styrene - CAS: 100-42-5

Target: Fresh Water - Value: 0.028 mg/l

Target: Marine water - Value: 0.028 mg/l

Target: Freshwater sediments - Value: 0.614 mg/kg

Target: Marine water sediments - Value: 0.0614 mg/kg

Target: Soil (agricultural) - Value: 0.2 mg/kg

Target: 14 - Value: 0.04 mg/l

Target: Purification plant - Value: 5 mg/l

butanone - CAS: 78-93-3

Target: Freshwater sediments - Value: 284.7 mg/kg

Target: Soil - Value: 22.5 mg/kg

Target: Oral - Value: 1000 mg/kg

Target: Fresh Water - Value: 55.8 mg/l

Target: Intermittent emissions - Value: 55.8 mg/l

Target: Purification plant - Value: 709 mg/l

Xylene - CAS: 1330-20-7

Target: Purification plant - Value: 6.58 mg/l

Target: Marine water - Value: 0.32 mg/l

Target: Intermittent emissions - Value: 0.32 mg/l

Target: Freshwater sediments - Value: 12.46 mg/kg

Target: Marine water sediments - Value: 12.46 mg/kg

Target: Soil - Value: 2.31 mg/kg

Target: Fresh Water - Value: 0.32 mg/l

#### Biological Exposure Index

styrene - CAS: 100-42-5

Value: 400 mg/g creatinine - medium: Urine - Biological Indicator: Mandelic acid in urine and fenilgliossilico - Sampling Period: End of turn

Value: 40 mg/l creatinine - medium: Urine - Biological Indicator: Styrene in urine - Sampling Period: End of turn

Xylene - CAS: 1330-20-7

Value: 1.5 g/g - medium: Urine - Biological Indicator: Creatinine in urine - Sampling Period: End of turn

#### 8.2. Exposure controls

##### Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

##### Protection for skin:

Wear safety clothing that ensure full skin protection in accordance to EN 14605 Type 4 in case of spills or spray (e.g. Tyrek). Please note: safety clothing must be changed immediately if it comes in contact with product.

##### Protection for hands:

Use protective gloves that provides comprehensive protection, EN374 Class 3 (F). Permeation time > 60 minutes; 0.4 mm thickness.

##### Respiratory protection:

Use adequate protective respiratory devices, using Filter "A" (Brown colour) for organic gas and vapors with boiling points over 65°C.

##### Thermal Hazards:

None

##### Environmental exposure controls:

Emissions from ventilation systems or from work processes must be check as to ensure compliance to environmental protection legislation. In some cases the addition of vapour scrubbers,

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filters or other system modification may be necessary in order to reduce emissions to acceptable levels.

Appropriate engineering controls:  
None

### SECTION 9: Physical and chemical properties

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

Properties	Value	Method:	Notes
Appearance and colour:	Pasta Thixotropic grigia	--	--
Odour:	Typical of Styrene	--	--
Odour threshold:	0.15 - 0.25 ppm ref. Styrene	--	--
pH:	N.A.		
Melting point / freezing point:	N.D.	--	--
Initial boiling point and boiling range:	145°C	--	--
Flash point:	32 °C	--	--
Evaporation rate:	N.D.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	1,1% - 6,1 % - Vol.	--	--
Vapour pressure:	6,7 hPa (20°C)	--	--
Vapour density:	3.6 (air=1)	--	--
Relative density:	1.020 g/cm <sup>3</sup>	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	N.D.	--	--
Partition coefficient (n-octanol/water):		--	--
Auto-ignition temperature:	490°C	--	--
Decomposition	N.D.	--	--

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temperature:			
Viscosity:	> 20.5 mm <sup>2</sup> (40°C)	--	--
Explosive properties:	N.D.	--	--
Oxidizing properties:	N.D.	--	--

### 9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under recommended use and storage conditions (see point 7).

### 10.3. Possibility of hazardous reactions

It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.

### 10.4. Conditions to avoid

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

Avoid accumulating electrostatic charge.

Stable under normal conditions.

### 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### 10.6. Hazardous decomposition products

Carbon oxides. Aromatic hydrocarbons.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

styrene - CAS: 100-42-5

#### a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 11.8 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Notes: OECD 402

#### i) STOT-repeated exposure:

Test: LOAEL(C) - Route: Oral - Species: Rat = 2000 mg/kg - Notes: bw/day

Test: NOAEL(C) - Route: Oral - Species: Rat = 1000 mg/kg - Notes: bw/day



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Test: LOAEL(C) - Route: Inhalation - Species: Rat = 0.21 mg/l  
butanone - CAS: 78-93-3

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Mouse = 40 mg/l

Test: LD50 - Route: Oral - Species: Rat = 2054 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 10 mg/kg

b) skin corrosion/irritation:

Test: Eye Irritant - Species: Rabbit Positive - Notes: OECD 405

Xylene - CAS: 1330-20-7

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 6700 ppm - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 5627 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Cobalt bis(2-ethylhexanoate) - CAS: 136-52-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3129 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin Positive

dichlone (ISO); 2,3-dichloro-1,4-naphthoquinone - CAS: 117-80-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 300 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 200 mg/kg bw

maleic anhydride - CAS: 108-31-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1090 mg/kg bw

Test: LD50 - Route: Skin - Species: Rabbit = 2620 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 4.35 mg/l - Duration: 1h

styrene - CAS: 100-42-5

Acute inhalation toxicity at 1000 ppm affects the central nervous system with headaches, dizziness and coordination difficulties; irritation of the mucous membranes of the eyes and respiratory tract occurs at 500 ppm. Chronic exposure gives system depression central and peripheral nervous system with memory loss, headaches and somnolence starting from 20 ppm; digestive disorders with nausea e loss of appetite; respiratory tract irritation with chronic bronchitis; dermatosis. Repeated exposure, to low doses of the substance by inhalation, it causes irreversible changes in hearing function and can cause changes in color vision. Repeated skin exposures cause irritation. The substance degrades the skin, which can cause dryness and cracking.

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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## SECTION 12: Ecological information

### 12.1. Toxicity

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ICR spa  
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42124 REGGIO EMILIA ITALY  
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Adopt good working practices, so that the product is not released into the environment.

styrene - CAS: 100-42-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 4.02 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 4.9 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia = 4.7 mg/kg - Duration h: 48

Endpoint: EC10 - Species: Algae = 0.28 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 1.01 mg/l - Duration h: 504

butanone - CAS: 78-93-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 2993 mg/l - Duration h: 96 - Notes: OSCE 203

Endpoint: EC50 - Species: Daphnia = 308 mg/l - Duration h: 48

Xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae = 4.36 mg/l - Duration h: 73

Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96

Endpoint: NOEC - Species: Algae = 0.44 mg/l - Duration h: 73

Endpoint: NOEC - Species: Daphnia = 1.57 mg/l - Duration h: 504

Endpoint: NOEC - Species: Fish = 1.3 mg/l - Duration h: 1344

Cobalt bis(2-ethylhexanoate) - CAS: 136-52-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 654 mg/l - Duration h: 72

dichlone (ISO); 2,3-dichloro-1,4-naphthoquinone - CAS: 117-80-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.031 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 0.0396 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 0.203 mg/l - Duration h: 72

Endpoint: EC50 - Species: Bacteria = 9.6 mg/l - Duration h: 3

maleic anhydride - CAS: 108-31-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 75 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 42.81 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 74.35 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 10 mg/l - Duration h: 504

#### 12.2. Persistence and degradability

Non-readily biodegradable

#### 12.3. Bioaccumulative potential

Not bioaccumulative

#### 12.4. Mobility in soil

Do not mix with waste water, rain or surface water. Floats on water, evaporates from liquid and solid surfaces but a significant amount may penetrate and pollute water table.

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

vPvB Substances: None - PBT Substances: None

#### 12.6. Other adverse effects

None

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

The empty containers must be considered special waste materials to take to dump of type 2B. If previously cleansed, they can be admitted in first class dumps.

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Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. DO NOT discharge into sewers, watercourses, ponds, canals or ditches. Empty product containers must be completely drained and stored safely until appropriately processes or disposed. Empty containers must be recycled, recovered or disposed of by a qualified and authorized company operating in compliance with current recycling, recovery and disposal regulations. It is advisable to provide the desposal company with all safety information of the material contained in the empty packaging. DO NOT pressurize, DO NOT cut, DO NOT weld, DO NOT puncture, DO NOT crush, DO NOT expose empty containers to heat, flames, sparks, electrostatic discharge or other sources of ignition.

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### SECTION 14: Transport information

ADR/RID-Class

If transported without hardener:

Not liable for receptacles equal or less than 450 litres, transported in accordance with 2.2.3.1.5 ADR.

If transported as Polyester Resin Kit (with hardener):

Limited quantities, not liable to ADR norms for internal packages of up to 5L and a maximum 30 kg per pack.

UN number:	3269
Packing Group:	III
Shipping Name:	Polyester Resin Kit
Transport category :	3
Classification code:	F1
Label:	3

IMDG/IMO

If transported without hardener:

UN number:	1263
Packing Group:	III
Shipping Name:	Paint
Transport category :	3
Class:	3
IMDG-label:	3
IMDG-EMS:	F-E,S-E

If transported as Polyester Resin Kit (with hardener):

UN number:	3269
Packing Group:	III
Shipping Name::	Polyester Resin Kit
Transport category:	3
Class:	3
IMDG-label:	3
IMDG-EMS:	F-E,S-D

Marine pollutant MARPOL (Annex II/III): No

For the correct trasposrt classification according to European decrees pertaining to international transport of dangerous goods by road (ADR) and by sea (IMDG), please refer to the goods' transport documentation.

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### SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 98/24/EC (Risks related to chemical agents at work)
  - Dir. 2000/39/EC (Occupational exposure limit values)
  - Regulation (EC) n. 1907/2006 (REACH)
  - Regulation (EC) n. 1272/2008 (CLP)
  - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
  - Regulation (EU) 2015/830
  - Regulation (EU) n. 286/2011 (ATP 2 CLP)
  - Regulation (EU) n. 618/2012 (ATP 3 CLP)
  - Regulation (EU) n. 487/2013 (ATP 4 CLP)
  - Regulation (EU) n. 944/2013 (ATP 5 CLP)
  - Regulation (EU) n. 605/2014 (ATP 6 CLP)
  - Regulation (EU) n. 2015/1221 (ATP 7 CLP)
  - Regulation (EU) n. 2016/918 (ATP 8 CLP)
  - Regulation (EU) n. 2016/1179 (ATP 9 CLP)
  - Regulation (EU) n. 2017/776 (ATP 10 CLP)
  - Regulation (EU) n. 2018/669 (ATP 11 CLP)
  - Regulation (EU) n. 2018/1480 (ATP 13 CLP)
  - Regulation (EU) n. 2019/521 (ATP 12 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

No restriction.

Volatile Organic compounds - VOCs = 170.00 g/Kg= 170 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.24

Dry weight (% wt):77.2

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

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### SECTION 16: Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H361d Suspected of damaging the unborn child.

H332 Harmful if inhaled.

H372 Causes damage to ear through prolonged or repeated exposure via inhalation..

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

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H335 May cause respiratory irritation.  
 H412 Harmful to aquatic life with long lasting effects.  
 H225 Highly flammable liquid and vapour.  
 H336 May cause drowsiness or dizziness.  
 EUH066 Repeated exposure may cause skin dryness or cracking.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H312 Harmful in contact with skin.  
 H360 May damage fertility or the unborn child.  
 H317 May cause an allergic skin reaction.  
 H400 Very toxic to aquatic life.  
 H302 Harmful if swallowed.  
 H318 Causes serious eye damage.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H372 Causes damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 EUH071 Corrosive to the respiratory tract.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Resp. Sens. 1	3.4.1/1	Respiratory Sensitisation, Category 1
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Repr. 1B	3.7/1B	Reproductive toxicity, Category 1B
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

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STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking  
 SECTION 2: Hazards identification  
 SECTION 3: Composition/information on ingredients  
 SECTION 4: First aid measures  
 SECTION 6: Accidental release measures  
 SECTION 7: Handling and storage  
 SECTION 8: Exposure controls/personal protection  
 SECTION 9: Physical and chemical properties  
 SECTION 10: Stability and reactivity  
 SECTION 11: Toxicological information  
 SECTION 12: Ecological information  
 SECTION 15: Regulatory information  
 SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

<b>Classification according to Regulation (EC) Nr. 1272/2008</b>	<b>Classification procedure</b>
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1A, H317	Calculation method
Repr. 2, H361d	Calculation method
STOT RE 1, H372	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.  
 Exposure scenario available upon request.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,

# Safety Data Sheet

## P02 POLIBONDER SOFT LIGHT AMC

Commission of the European Communities  
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not available
N.D.:	Not determined.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average