

**Plastic Primer, Primer for plastic**

20/01/2016 Version No. 2

**SAFETY DATA SHEET****1 Identification of chemical product and information on the manufacturer and/or supplier****1.1 Product Name:** *Plastic Primer, Primer for plastic***Manufacturer / supplier:** **ECOPOL LLC.**  
35, Suvorova str., Dzerzhinsk, Nizhny Novgorod region, 606010, Russia  
Telephone: (8313) 230351; 230839; 230781; 230746  
Tel./fax: (8313) 254103; 274016**1.2 Relevant identified uses of the substance or mixture and recommended the use of***The product is intended only for industrial or professional use.***1.3 Emergency phone:***In an emergency, contact the National Center for Emergency Care.***2 Hazard (hazards) identification****2.1 Classification of the substance or mixture****· Classification according to Regulation (EC) No 1272/2008**

H225: Highly flammable liquid and vapour.	Flammable liquids, Hazard Category 2
H315: Causes skin irritation	Skin corrosion/irritation. Hazard category 2
H332: Harmful if inhaled.	Acute toxicity (inhal.), Hazard Category 4
H336: May cause drowsiness or dizziness.	Specific target organ toxicity. Hazard category 3
H361d: Suspected of damaging the unborn child.	Reproductive toxicity, Hazard Category 2
H373: May cause damage to organs through prolonged or repeated exposure.	Specific target organ toxicity — Repeated exposure, Hazard Category 2

**· 2.2 Label elements****· Labelling according to Regulation (EC) No 1272/2008***This product is classified and labelled according to the Regulation on the classification, labelling and packaging of substances and mixtures (CLP).***· Hazard pictograms**

GHS02 GHS07 GHS08

**· Signal word** *Danger***· Hazard-determining components of labelling:***Toluene**Xylene***· Hazard statements**

H225: Highly flammable liquid and vapour.  
H315: Causes skin irritation  
H332: Harmful if inhaled.  
H336: May cause drowsiness or dizziness.  
H361d: Suspected of damaging the unborn child.  
H373: May cause damage to organs through prolonged or repeated exposure.

**· Precautionary statements**

- P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
- P271: Use only outdoors or in a well-ventilated area.  
- P280: Wear protective gloves/protective clothing/eye protection/face protection.  
- P312: Get medical advice if you feel unwell.

## Plastic Primer, Primer for plastic

20/01/2016 Version No. 2

- P273: Avoid release to the environment.
- P102: Keep out of reach of children.








### 2.3 Other hazards

No information available.

## 3 Composition (information on ingredients)

### 3.2 Chemical characterization: Mixtures

- **Description:** Mixture of substances listed below with nonhazardous additives.
- **Contained hazardous substances:**

Chemical name	H-statements	Pictograms, signal word (codes)
<b>Dimethylbenzene (xylene)</b> Concentration, % (by weight) 30 to 90 CAS No. 1330-20-7 EINECS No. 215-535-7 Index Number 601-022-00-9 REACH No. 01-2119488216-32-XXXX	Flam. Liq. 3 Acute Tox. 4 * Skin Irrit. 2 Acute Tox. 4 *	H226  GHS02 H312  GHS07 H315 H332 Wng
<b>Toluene (methylbenzene)</b> Concentration, % (by weight) 5 to 20 CAS № 108-88-3 EINECS № 203-625-9 Index Number 601-021-00-3 REACH 01-2119471310-51-XXXX	Flam. Liq. 2 Asp. Tox. 1 Skin Irrit. 2 STOT SE 3 Repr. 2 STOT RE 2 *	H225  GHS02 H304  GHS07 H315  GHS08 H336 Dgr H361d H373
<b>Butyl acetate</b> Concentration, % (by weight) 0.5 to 6 CAS № 123-86-4 EINECS № 204-658-1 Index Number 607-025-00-1 REACH № 01-2119485493-29- XXXX	Flam. Liq. 3 STOT SE 3	H226  GHS02 H336  GHS07 Wng

## 4 First aid measures

### 4.1 Description of first aid measures

#### General advice:

Immediately remove any clothing contaminated by this product.  
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the emergency (accident).

#### After inhalation:

Supply fresh air or oxygen; call for doctor.  
 In case of unconsciousness bring patient into stable side position for transport.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly.  
 Seek medical help.

#### After eye contact:

Rinse opened eye for several minutes under running water; then consult doctor.  
 Remove contact lenses if any, continue rinsing.

#### After swallowing:

Rinse mouth and drink plenty of water. DO NOT induce vomiting. Get medical attention.

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

No further relevant information available.

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

Symptomatic treatment

## Plastic Primer, Primer for plastic

20/01/2016 Version No. 2

### 5 Fire-fighting measures

#### · 5.1 Extinguishing media

##### · Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing powder or water spray jet.

Fight larger fires with water spray jet or alcohol resistant foam.

##### · For safety reasons unsuitable extinguishing agents:

Full water jet

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

The following substances can be released in case of fire:

Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)

#### · 5.3 Advice for firefighters

· **Protective equipment:** Wear self-contained respiratory protective device.

##### · Additional information

Cool endangered containers with water spray jet.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

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

Wear protective clothing. Keep unprotected people away.

Provide for sufficient ventilation.

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes and skin.

#### · 6.2 Environmental precautions:

Do not allow to enter sewers / surface or ground water / holes and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

#### · 6.3 Methods and materials for containment and cleaning up:

Provide for sufficient ventilation.

Absorb with liquid-binding wet material (sand, diatomite, chemical binder based on calcium silicate, universal binders, sawdust).

Send for recovery or disposal in suitable containers.

Dispose of contaminated material as waste according to guidelines.

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage of chemicals.

#### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level (fumes are heavier than air).

Limit the amount of stocks at the workplace.

Use only in well ventilated areas.

Avoid contact with eyes and skin.

Do not breathe smoke / spray.

Ensure the check of the total used area of the production premise.

##### · Information about fire and explosion protection:

Fumes can combine with air to form an explosive mixture.

Flammable gas and air mixtures may be formed in empty containers.

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

Take precautionary measures against static discharge.

Apply explosion-proof instruments / valves and sparkless tools.

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

##### · Storage:

· Storage requirements to be met by storerooms and containers:

## Plastic Primer, Primer for plastic

20/01/2016 Version No. 2

Store in a cool location.

Observe the rules for storage of flammable liquids.

Observe water protection rules.

· **Information about storage in one common storage facility:**

Observe the rules for storage of flammable liquids.

· **Further information about storage conditions:**

Store receptacle in a well ventilated area.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

### 8 Exposure controls/personal protection

#### · 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

**CAS No. 1330-20-7 xylene (isomer mixture)**

OEL (RF) short-term maximum: 150 mg/m<sup>3</sup>

shift-average: 50 mg/m<sup>3</sup>

**CAS No. 108-88-3 toluene**

OEL (RF) short-term maximum: 150 mg/m<sup>3</sup>

shift-average: 50 mg/m<sup>3</sup>

**CAS No. 123-86-4 n-butyl acetate**

OEL (RF) short-term maximum: 200 mg/m<sup>3</sup>

shift-average: 50 mg/m<sup>3</sup>

#### **DNEL values**

**CAS No. 1330-20-7: xylene**

Area of application: worker (Inhalation)

Potential effects on health: Long-term exposure, systemic effects: 77 mg/m<sup>3</sup>

Area of application: worker (Inhalation)

Potential effects on health: Short-term exposure, systemic and local effects: 289 mg/m<sup>3</sup>

Area of application: worker (dermatitis)

Potential effects on health: Long-term exposure, systemic effects: 180 mg/kg bw/day

Area of application: worker (dermatitis)

Potential effects on health: Short-term exposure, local effects: no information available

**CAS No. 108-88-3: toluene**

Area of application: worker (Inhalation)

Potential effects on health: Long-term exposure, systemic effects: 192 mg/m<sup>3</sup>

Area of application: worker (Inhalation)

Potential effects on health: Short-term exposure, systemic and local effects: 384 mg/m<sup>3</sup>

Area of application: worker (dermatitis)

Potential effects on health: Long-term exposure, systemic effects: 384 mg/kg bw/day

Area of application: worker (dermatitis)

Potential effects on health: Short-term exposure, local effects: no information available

**CAS No. 123-86-4: n-butyl acetate**

Area of application: worker (Inhalation)

Potential effects on health: Long-term exposure, systemic effects: 48 mg/m<sup>3</sup>

Area of application: worker (Inhalation)

Potential effects on health: Short-term exposure: no information available

Area of application: worker (dermatitis)

Potential effects on health: Long-term exposure, systemic effects: 7 mg/kg bw/day

Area of application: worker (dermatitis)

Potential effects on health: Short-term exposure: no information available

#### **PNEC values**

**CAS No. 1330-20-7: xylene**

freshwater: 0.327 mg/l

marine water: 0.327 mg/l

soil: 2.31 mg/kg soil dw

**CAS No. 108-88-3: toluene**

freshwater: 0.68 mg/l

marine water: 0.68 mg/l

soil: 2.89 mg/kg soil dw

## Plastic Primer, Primer for plastic

20/01/2016 Version No. 2

**CAS No. 123-86-4: n-butyl acetate**

freshwater: 0.18 mg/l

marine water: 0.018 mg/l

soil: 0.09 mg/kg soil dw

· **Additional information:**

The lists valid during manufacture were used as basis.

· **8.2 Exposure controls / personal protection**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Immediately remove all soiled and contaminated clothing.

Do not inhale gases/fumes/sprays.

Avoid contact with eyes and skin.

Wash hands before breaks and at the end of work.

Do not put the product-soaked rags in trouser pockets.

· **Respiratory protection:**

If workplaces are well-ventilated precautions are not required.

· **Hand protection:**

Rubber gloves.

· **Eye protection:** Tightly sealed safety glasses

· **Body protection:**

Protective work clothing

Body protection must be chosen depending on the type of activity and possible exposure.

· **Environmental exposure controls**

Do not allow to enter sewers / surface or ground water.

## 9 Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General information**

Appearance

Liquid

Colour

Required

Odour

Of organic solvents

pH

Not specified

Boiling point

Not specified

Flash point (Closed cup)

Plus 24<sup>0</sup>C (dimethylbenzene)

Plus 4<sup>0</sup>C (methylbenzene)

Plus 29<sup>0</sup>C (butyl acetate)

Self-ignition temperature

Plus 494<sup>0</sup>C (dimethylbenzene)

Plus 536<sup>0</sup>C (methylbenzene)

Plus 370<sup>0</sup>C (butyl acetate)

Density, g/cm<sup>3</sup>

0.9

Viscosity (relative, sec)

10

Lower explosion limit, % by volume

1.0 (dimethylbenzene)

1.3 (methylbenzene)

2.2 (butyl acetate)

Upper explosion limit, % by volume

6.0 (dimethylbenzene)

6.7 (methylbenzene)

14.7 (butyl acetate)

Vapour density (Pa/at 20°C)

Not specified

Solids content, % by weight

Not specified

Solubility in water

Insoluble

· **9.2 Other information** No further relevant information available.

**Plastic Primer, Primer for plastic**

20/01/2016 Version No. 2

**10 Stability and reactivity****10.1 Chemical stability**

Stable under recommended storage and handling conditions.

**10.2 Chemical reactivity**

None under recommended storage and handling conditions.

**10.3 Conditions to avoid**

Direct sunlight, high temperatures, open flames, sparks.

Contact with strong oxidizing agents, peroxides, strong acids and bases.

**10.4 Hazardous decomposition products**

Thermal decomposition can release carbon monoxide and other toxic gases.

**11 Toxicological information****11.1 Information on toxicological effects****Acute toxicity:****LD/LC50 (lethal dose/concentration) values relevant for classification:****CAS No. 1330-20-7 xylene (isomer mixture)**

Oral (by mouth) LD50 3523 mg/kg (rat)

Dermal (through the skin) LD50 12,126 mg/kg (rabbit)/by m-xylene

Inhalation LC50/4 h 27,124 mg/m<sup>3</sup> (rat)

**CAS No. 108-88-3 toluene**

Oral (by mouth) LD50 > 5000 mg/kg (rat)

Dermal (through the skin) LD50 > 5000 mg/kg (rabbit)

Inhalation LC50/4 h LC50 > 20 mg/l (rat)

**CAS No. 123-86-4 n-butyl acetate**

Oral (by mouth) LD50 14,130 mg/kg (rat)

Dermal (through the skin) LD50 >17,600 mg/kg (rabbit)

**Primary irritant effect:**

**on the skin:** Prolonged or repeated contact may defat the skin and result in dermatitis.

**on the eye:** Irritant effect.

**Subacute to chronic toxicity:** not classified

**Additional toxicological information:**

The product shows the following hazards according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

Danger of skin absorption.

**Information on the following groups of potential effects:**

**Sensitization** No sensitizing effects known.

**Repeated dose toxicity** not determined

**Carcinogenicity, mutagenicity and toxicity for reproduction**

According to present knowledge no CMR-effects known.

**12 Ecological information****12.1 Toxicity****CAS No. 1330-20-7 xylene (isomer mixture)**

EbC50/73 h 2.2 mg/l (*Selenastrumcapricornutum*)(by p-xylene) / for algae

EC50/48 h >3.4 mg/l (*Ceriodaphniadubia*)(by m-xylene) / for aquatic invertebrates

LC50/96h 11.23 mg/l (*Bryconamericusiheringii*)(by m-xylene)/ for fish

NOEC/56 days >1.3mg/l (*Salmo gairdneri*)/ for fish

**CAS No. 108-88-3 toluene**

EC50 /48 h 125-160 mg/l (*Scenedesmus subspicatus* (new name: *Desmodesmus subspicatus*)) / for algae

EC50/24 h > 245 mg/l (*Chlorella vulgaris*) growth rate / for algae

NOEC/7 days > 400 mg/l (*Scenedesmus quadricauda*) growth rate / for algae





## Plastic Primer, Primer for plastic

20/01/2016 Version No. 2

EC50/48 h 3.78 mg/l (*Ceriodaphnia Dubia*) / for aquatic invertebrates

LC50/96 h 24 mg/l (*Oncorhynchus mykiss*) / for fish

NOEC/40 days 1,4 mg/l (*Oncorhynchus kisutch*) / for fish

**CAS No. 123-86-4 n-butyl acetate**

ErC50/72 h 648 mg/l (*Scenedesmus subspicatus*) growth inhibition in algae

EC50/48h 44 mg/l (*Daphnia sp.*) / for aquatic invertebrates

LC50/96 h 18 mg/l (*Pimephales promelas*) / for fish

### • 12.2 Persistence and degradability

No further relevant information available.

• **12.3 Bioaccumulative potential** No further relevant information available.

• **12.4 Mobility in soil** No further relevant information available.

### • Additional ecological information:

#### • General notes:

The product contains volatile organic components. Do not allow product to reach ground, water, water course or sewage system and biological treatment plants.

### • 12.5 Results of PBT and vPvB assessment

• **PBT:** No information available.

• **vPvB:** No information available.

• **12.6 Other adverse effects** No further relevant information available.

## 13 Disposal considerations

### • 13.1 Waste treatment methods

• Recommendation:

Disposal must be made according to official regulations.

#### • European waste catalogue

Waste disposal key numbers have to be assigned depending on origin and processing.

#### • Uncleaned packaging:

• Recommendation:

Must not be disposed of together with household garbage. Contaminated packaging must be transported to the companies authorized to collect, recycle or dispose waste.

## 14 Transport information

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA</b>
<b>14.1 UN number</b>	1139	1139	1139
<b>14.2 UN shipping name</b>		COATING SOLUTION	
<b>14.3 Transport classification</b>	3	3	3
<b>14.4 Packing Group</b>	II	II	II
<b>14.5 Environmental hazards:</b>	No	No	No
• <b>Marine pollutant:</b>			
<b>14.6 Special precautions for user</b>			
Do not transport together with materials of class 1; class 4.2; class 4.3; class 5.			
Do not use open flame and no smoking			

## 15 Regulatory information

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

#### • National regulations:

#### • Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

• **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## Plastic Primer, Primer for plastic

20/01/2016 Version No. 2

### 16 Other information:

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

<b>ADR:</b>	<i>European Agreement concerning the International Carriage of Dangerous Goods by Road</i>
<b>RID:</b>	<i>Regulations Concerning the International Transport of Dangerous Goods by Rail</i>
<b>IMDG:</b>	<i>International Maritime Code for Dangerous Goods</i>
<b>IATA:</b>	<i>International Air Transport Association</i>
<b>GHS:</b>	<i>Globally Harmonised System of Classification and Labelling of Chemicals</i>
<b>EINECS:</b>	<i>European Inventory of Existing Commercial Chemical Substances</i>
<b>ELINCS:</b>	<i>European List of Notified Chemical Substances</i>
<b>CAS:</b>	<i>Chemical Abstracts Service (division of the American Chemical Society)</i>
<b>REACH:</b>	<i>Registration Evaluation and Authorisation of Chemicals</i>
<b>DNEL:</b>	<i>Derived No-Effect Level (REACH)</i>
<b>PNEC:</b>	<i>Predicted No-Effect Concentration (REACH)</i>
<b>LOEC:</b>	<i>Lowest Observed Effect Concentration</i>
<b>NOEC:</b>	<i>No Observed Effect Concentration</i>
<b>LC50:</b>	<i>Lethal concentration, 50 percent</i>
<b>LD50:</b>	<i>Lethal dose, 50 percent</i>
<b>Flam. Liq. 3</b>	<i>Flammable liquids, Hazard Category 3</i>
<b>Acute Tox. 4 *</b>	<i>Acute toxicity, Hazard Category 4</i>
<b>Skin Irrit. 2</b>	<i>Skin corrosion/irritation, Hazard Category 2</i>
<b>STOT SE 3</b>	<i>Specific target organ toxicity, Hazard Category 3</i>
<b>Flam. Liq. 2</b>	<i>Flammable liquids, Hazard Category 2</i>
<b>Asp. Tox. 1</b>	<i>Aspiration Hazard Category 1</i>
<b>Repr. 2</b>	<i>Reproductive Toxicity, Hazard Category 2</i>
<b>STOT RE 2</b>	<i>Specific target organ toxicity, Hazard Category 2</i>
<b>GHS02</b>	<i>Hazard pictogram: flame</i>
<b>GHS07</b>	<i>Hazard pictogram: exclamation mark</i>
<b>GHS08</b>	<i>Hazard pictogram: health hazard</i>
<b>Wng</b>	<i>Warning</i>
<b>Dgr</b>	<i>Danger</i>
<b>H225:</b>	<i>Highly flammable liquid and vapour. Vapours form explosive mixtures with air</i>
<b>H226:</b>	<i>Flammable liquid. Vapours form explosive mixtures with air</i>
<b>H304:</b>	<i>May be fatal if swallowed and enters airways</i>
<b>H312:</b>	<i>Harmful in contact with skin</i>
<b>H315:</b>	<i>Causes skin irritation</i>
<b>H332:</b>	<i>Harmful if inhaled</i>
<b>H336:</b>	<i>May cause drowsiness or dizziness.</i>
<b>H361d:</b>	<i>Suspected of damaging the unborn child.</i>
<b>H373:</b>	<i>May cause damage to organs (hearing organs) through prolonged or repeated exposure</i>