

**SAFETY DATA SHEET**

Reg. EC/1907/2006 – Reg.(UE) n.453/2010

Sheet : TPO Primer

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Revision: 02/2013

Date 18/09/2013

**1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

1.1. Product identifier: TPO Primer

1.2. Foreseen use: PRIMER FOR PLASTIC MATERIALS

1.3. Details of the supplier of the safety data sheet: RIËD B.V. – Weteringstraat 5, 7391TX – Twello – The Netherlands  
For further information concerning the use of this safety data sheet please phone +31-(0)571-260222

Chemical technician in charge of the safety data sheet: info@riedbv.nl

1.4. Emergency telephone number: +31-(0)6-50666582

**2. HAZARD IDENTIFICATION.**

2.1. Classification of the substance or mixture in compliance with Dir. 1999/45/EC: the mixture is classified as extremely flammable, harmful by inhalation and in contact with skin, irritating to skin.

2.2. Label elements applied in compliance with Dir. 1999/45/CE: Symbol Xn, F<sup>+</sup>, Phrases R: 12 - 20/21 - 38, Phrases S: 16 - 23 - 37 - 51. Contains: xylene.

Special regulations: Container under pressure. Protect against sun rays, and do not expose to temperatures of more than 50°C. Do not pierce or burn not even after use. Do not spray on a flame or on a white-hot body. Keep away from any source of ignition - do not smoke. Keep away from the reach of children.

Note: PACK2 the packaging must carry a tactile indication of danger to the blind people.

**3.COMPOSITION/INFORMATION ON INGREDIENTS**

3.2. Mixtures: Dangerous components (classification according to Dir. 67/548/EEC e Reg. (EC) n. 1272/2008 where data available)

| Denomination | CAS N°       | Conc.<br>% in weight | Symbol  |                                  | R Phrases                   | Note                         |
|--------------|--------------|----------------------|---|----------------------------------|-----------------------------|------------------------------|
|              | EC Index N°  |                      | Hazard class<br>and category                                      | Pictograms and<br>labeling codes | Hazard<br>Statement<br>Code |                              |
|              | EC N°        |                      |   |                                  |                             |                              |
| xylene       | 1330-20-7    | 50 ÷ 60 %            | Xn, Xi  |                                  | 10-20/21-38                 |                              |
|              | 601-022-00-9 |                      | Flam. Liq. 3<br>Acute Tox. 4 *<br>Acute Tox. 4 *<br>Skin Irrit. 2 |                                  | Wng                         | H226<br>H332<br>H312<br>H315 |
|              | 215-535-7    |                      |   |                                  |                             |                              |
| propane      | 74-98-6      | 20 ÷ 25 %            | F <sup>+</sup>  |                                  | 12                          |                              |
|              | 601-003-00-5 |                      | Flam. Gas 1<br>Press. Gas   |                                  | Dgr                         | H220                         |
|              | 200-827-9    |                      |   |                                  |                             |                              |
| butane       | 106-97-8     | 10 ÷ 15 %            | F <sup>+</sup>  |                                  | 12                          |                              |
|              | 601-004-00-0 |                      | Flam. Gas 1<br>Press. Gas   |                                  | Dgr                         | H220                         |
|              | 203-448-7    |                      |   |                                  |                             |                              |
| isobutane    | 75-28-5      | 1 ÷ 5 %              | F <sup>+</sup>  |                                  | 12                          |                              |
|              | 601-004-00-0 |                      | Flam. Gas 1<br>Press. Gas   |                                  | Dgr                         | H220                         |
|              | 200-857-2    |                      |   |                                  |                             |                              |

Further information: For the wording of the listed risk phrases refer to section 16.

**4. FIRST AID MEASURES**

4.1. Description of first aid measures

In case of skin contact:

- Immediately take off contaminated garments.
- Immediately wash the body parts which have come into contact with the preparation, even if only suspected, with plenty of current water and possibly with soap.
- Wash the entire body (shower or bath).
- Immediately remove contaminated clothing and dispose of safely.

In case of eye contact:

- Rinse with water for a sufficient length of time with eyelids open, then immediately consult an ophthalmologist.
- Protect the uninjured eye.

In case of swallowing:

- DO NOT induce vomit.

In case of inhalation:

- If respiration is irregular or has stopped, give artificial respiration.
- Immediately consult a doctor showing him the container or the label.

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

- None

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

- In case of accident or ailment, seek medical advice immediately (if possible show directions for use or safety data sheet).
- Treatment: None

## 5. FIREFIGHTING MEASURES

5.1. Recommended measures: Extinguish with carbon dioxide, powders, foam, sprayed water. Do not use water jets.

5.2. Special hazards arising from the substance or mixture: combustion can develop toxic fumes containing carbon monoxide and nitrogen oxides.

5.3. Advice for firefighters: Cool with sprayed water any closed containers exposed to the fire. Do not breath fumes developed from the fire or wear breathing apparatus. Prevent extinguishing liquids from entering sewer systems or water courses.

## 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures: Do not breathe in vapours, use the personal protective equipment for person/eyes and respiratory tract. Keep away any source of ignition and ventilate the area. Vapours are heavier than air and may form flammable mixtures along the ground: provide adequate ventilation.

6.2. Environmental precautions: Prevent spills from entering manholes and drains.

6.3. Methods and material for containment and cleaning up: In case of accidental spillage, check and absorb any spilled product with sand and inert materials. Put the contaminated material into tight containers and dispose of as waste according to laws in force. Use no-sparking tools. If the material is to be recovered by aid of aspirators, keep away possible sources of ignition. Do not throw waste material into the sewer system. Clean the area involved with water or detergent liquid. Do not use any solvents.

## 7. HANDLING AND STORAGE

7.1. Precaution for safe handling: Ensure an adequate ventilation and/or localised suction systems in work places.

The material can accumulate electrostatic charges which may cause sparks (source of ignition). Use appropriate storage procedures and grounding systems. Use only in well-ventilated places.

For personal protection devices as see paragraph 8. Do not smoke, eat or drink in working areas.

7.2. Condition for safe storage, including any incompatibilities: **Store between 15 and 25°C in a dry and well aired place.** Keep containers well closed and away from heat sources, sparks and open flames. Do not smoke. Do not allow access to the storage area to unauthorized persons. Keep away from oxidative agents, peroxides, strong acids. Store in a cool and well-ventilated place. Storage package, package for decanting and related equipment must be grounded to prevent accumulation of electrostatic charges.

Compatible packaging materials and coatings (chemical compatibility): carbon steel; stainless steel; polyethylene; polypropylene; polyester; PTFE. Not compatible materials and coatings: none in particular.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1. Control parameters

### Professional Exposure Limits:

| Component              | ACGIH 2012    |                   |          |                   | Note    | DIR 2000/39/CE |                   |          |                   | Note |
|------------------------|---------------|-------------------|----------|-------------------|---------|----------------|-------------------|----------|-------------------|------|
|                        | TLV - TWA (1) |                   | STEL (2) |                   |         | TLV - TWA (1)  |                   | STEL (2) |                   |      |
|                        | ppm           | mg/m <sup>3</sup> | ppm      | mg/m <sup>3</sup> |         | ppm            | mg/m <sup>3</sup> | ppm      | mg/m <sup>3</sup> |      |
| Xylene 1330-20-7       | 100           | 434               | 150      | 651               | IBE (3) | 50             | 221               | 100      | 442               | skin |
| Propane 74-98-6        | 1000          |                   |          |                   | IBE     |                |                   |          |                   |      |
| Butane 106-97-8        | 1000          |                   |          |                   | IBE     |                |                   |          |                   |      |
| Isobutene 75-28-5      | 1000          |                   |          |                   | IBE     |                |                   |          |                   |      |
| Chlorobenzene 108-90-7 | 10            |                   | 46       |                   | IBE     | 5              | 23                | 15       | 70                |      |

1) Limit for long exposure 2) Limit for short exposure 3) Substance with indicator of Biological Exposure

8.2. Exposure controls

- Eyes protection: Not necessary for normal use. Still operate according to good working practices.
- Skin protection: Wear garments that ensure a complete protection of the skin, eg.: in cotton, rubber, PVC or Viton.
- Hands protection: Solvent resistant gloves according to standards EN 374/2003. Selection of glove material considering the times and rates of permeations and degradations. Gloves material: PVC, neoprene, nitrile rubber. Permeation time > 480 minutes; Thickness of gloves material: 0,40 mm.
- Protection of respiratory tract: An adequate protection of the respiratory tract is essential, eg.: CEN/FFP-2 or CEN/FFP-3
- Thermal risks: None
- Environmental exposure controls: None

**HYGENIC MEASURES:** Do not breathe vapours – Avoid contact with skin and eyes – Keep away from food and drinks – Before breaks and at the end of work wash hands - Remove contaminated garments and wash them before use them again. Persons with an inclination to skin affections and other signs of skin hypersensitivity must avoid any contact with the product. Use anti-static working clothes.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1. Information on basic physical and chemical properties

|  |                                    |
|--|------------------------------------|
| Physical state:                              | aerosol                            |
| Odour:                                       | characteristic of solvents         |
| Olfactory limit:                             | data not available for the mixture |
| pH:  | n.a.                               |
| Melting point:                               | data not available for the mixture |
| Flash point:                                 | <0°C                               |
| Evaporation rate:                            | data not available for the mixture |
| Flammability limits (xylene):                | 1,1÷7,0 % in volume                |
| Vapour pressure:                             | data not available for the mixture |
| Boiling range:                               | data not available for the mixture |
| Vapour density (xylene):                     | 3,66 Kg/m <sup>3</sup> at 20 °C    |
| Density (at 20°C):                           | 0,86 Kg/L                          |
| Solubility in water:                         | insoluble                          |
| Distribution coefficient: n-octanol / water: | data not available for the mixture |
| Self-ignition temperature:                   | data not available for the mixture |
| Decomposition temperature:                   | data not available for the mixture |
| Viscosity:                                   | data not available for the mixture |
| Explosive properties:                        | n.a.                               |
| Oxidative properties:                        | see danger identification section  |

**10. STABILITY AND REACTIVITY**

10.1. Reactivity: Stable under normal condition

10.2. Chemical stability: The product is stable under the recommended conditions of storage and use (see paragraph 7).

10.3. Possibility of hazardous reactions: If exposed to high temperatures may form explosive mixtures vapour/air.

10.4. Conditions to avoid: heat, flames and sparks.

10.5. Incompatible materials: comburent materials, strong alkalis and strong acids, oxidizing agents.

10.6. Hazardous decomposition products: none under normal condition of use.

**11. TOXICOLOGICAL INFORMATION**

11.1. Information on toxicological effects:

Acute toxicity of xylene 1330-20-7: LD<sub>50</sub> oral rat 4300 mg/Kg

No specific data is available on the preparation itself.

The exposure to concentrations in air exceeding recommended limits can cause irritation to eyes, respiratory tract, and effects on the central nervous system (narcosis).

Frequent and prolonged skin contact may cause dermatitis.

**12. ECOLOGICAL INFORMATION**

12.1 Toxicity: no specific data is available on the preparation.

12.2 Persistence and degradability: no specific data is available on the preparation; mixture components are partially biodegradable and compatible with biological treatment in waste treatment plants.

12.3. Bioaccumulative potential: not bioaccumulable.

12.4. Mobility in soil: no specific data available on the preparation.

**13. DISPOSAL CONSIDERATIONS**

13.1. Waste treatments methods: Do not discharge the product or residues of treatment into sewer systems or water courses. Waste has to be disposed of in compliance with D. Lgs. Regulations of 3 April 2006, n. 152 (European Directives 91/156/EEC, 91/689/EEC and 94/62/EC). Waste may be treated in waste water depuration plants or in incineration plants. Contaminated containers: Empty containers should be taken for recycling, recovery or disposal as waste.

**14. TRANSPORT INFORMATION**

|            |                |         |                        |
|------------|----------------|---------|------------------------|
| ADR/RID:   | Class 2        | UN 1950 | Denomination: Aerosol  |
| IMDG:      | Class 2        | UN 1950 | Denomination: Aerosols |
|            | Sea polluting: | No      |                        |
| ICAO/IATA: | Class 2.1      |         |                        |

**15. REGULATORY INFORMATION**

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

The components of the mixture are included in Annex I of Dir. 96/82/EC (Seveso).

The preparation itself falls within the scope of Directives 1999/13/EC and 2004/42/EC (Annex II, B) on limits for the emissions of volatile organic compounds (VOC) in vehicles refinishing products.

**16. OTHER INFORMATION**

Revision for adaptation to Regulation (EU) n.453/2010, Annex I. Modified points 3 and point 8.

The full text of the R and S-phrases and of the codes of hazard indications are given under point 2.

R 10: Flammable.

R 12: Extremely flammable.

R 20/21: Harmful by inhalation and in contact with skin.

R 38: Irritating to skin.

S 16: Keep away from sources of ignition – No smoking.  
S 23: Do not breath vapours and aerosols.  
S 37: Wear suitable gloves.  
S 51: Use only in well-ventilated areas.

H 220: Extremely flammable gas.  
H 226: Flammable liquid and vapor.  
H 312: Harmful in contact with skin.  
H 315: Causes skin irritation.  
H 332: Harmful if inhaled.

Legislation of reference in Italy:

D.M. 28/4/97 – D.M. 28/02/2006 - Classification and labelling of dangerous substances.  
D. Lgs. 14/03/2003 – D.Lgs. 28/07/2004 Classification, packing and labelling of dangerous preparations.  
D.M. 7/9/2002 - Safety Data Sheets.  
D.P.R. 547/55 - D.P.R. 303/56 - D. Lgs. 81/08 - Industrial prevention, security and hygiene.  
D.Lgs. 152/2006 – Environmental code.

Legend: TLV-TWA (Threshold Limit Value-Time Weighted Average), TLV-STEL (Threshold Limit Value-Short Term Exposure Limit).

The data contained in this safety sheet are based on our current knowledge and are supplied in compliance with Reg. (UE) n. 453/2010, Annex I. The product must not be used for purposes which are different from those indicated under point 1 prior to having obtained specific written instructions. No responsibility is taken for any improper use. It is always the user's liability to conform to the regulations of hygiene, safety and environmental protection foreseen by laws in force. The information contained in this safety data sheet is to be understood as a description of the product for safety purposes, it is not to be considered as a guarantee of its properties.