

# SAFETY DATA SHEET

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

### 1.1 Product identifier

**Product name** : PE BASECOAT THIXO PIGMENTED - WHITE

**Product code** : PU0377/13

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

**Material uses** : Paint or paint related material.  
: Industrial use only.

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

SHERWIN-WILLIAMS Italy S.r.l.  
Via del Fifico, 12 - 40065 Pianoro (BO)  
Italia - C.P. 18  
Cod. Fisc. e Reg. Impr. Bo 08866930152  
**e-mail address of person responsible for this SDS** : regulatory.SWI@sherwin.com

### 1.4 Emergency telephone number

#### National advisory body/Poison Center

**Telephone number** : 0844 892 0111

#### Supplier

**Telephone number** : +39 051 770511

**Hours of operation** : Emergency contact available 24 hours a day

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225  
Acute Tox. 4, H332  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Repr. 2, H361d (Unborn child)

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

#### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : F; R11  
Xn; R20  
Xi; R36/38

**Physical/chemical hazards** : Highly flammable.

**Human health hazards** : Harmful by inhalation. Irritating to eyes and skin.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

**SECTION 2: Hazards identification****2.2 Label elements****Hazard pictograms**

:

**Signal word**

: Danger

**Hazard statements**

: Highly flammable liquid and vapor.  
 Harmful if inhaled.  
 Causes serious eye irritation.  
 Causes skin irritation.  
 Suspected of damaging the unborn child.

**Precautionary statements****Prevention**

: Obtain special instructions before use. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.

**Response**

: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

**Storage**

: Keep cool.

**Disposal**

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients**

: Styrene  
 Toluene

**Supplemental label elements**

: FOR INDUSTRIAL USE ONLY

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

: Not applicable.

**Special packaging requirements**

Not applicable.

**Biocidal products regulation****2.3 Other hazards****Other hazards which do not result in classification**

: None known.

**SECTION 3: Composition/information on ingredients****3.2 Mixture**

:

| Product/ingredient name | Identifiers                                                                           | %          | Classification                                     |                                                                                           | Type    |
|-------------------------|---------------------------------------------------------------------------------------|------------|----------------------------------------------------|-------------------------------------------------------------------------------------------|---------|
|                         |                                                                                       |            | 67/548/EEC                                         | Regulation (EC) No. 1272/2008 [CLP]                                                       |         |
| Styrene                 | REACH #:<br>01-2119457861-32<br>EC: 202-851-5<br>CAS: 100-42-5<br>Index: 601-026-00-0 | >=15 - <20 | R10<br><br>Xn; R20<br>Xi; R36/38                   | Flam. Liq. 3, H226<br><br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 | [1] [2] |
| Toluene                 | REACH #:<br>01-2119471310-51<br>EC: 203-625-9<br>CAS: 108-88-3                        | >=1 - <5   | F; R11<br><br>Repr. Cat. 3; R63<br>Xn; R48/20, R65 | Flam. Liq. 2, H225<br><br>Skin Irrit. 2, H315<br>Repr. 2, H361d (Unborn                   | [1] [2] |

### SECTION 3: Composition/information on ingredients

|         |                                                                                                                     |          |                                                                                                                                                          |                                                                                                                                                                                                                                                                                 |         |
|---------|---------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Acetone | Index: 601-021-00-3<br><br>REACH #:<br>01-2119471330-49<br>EC: 200-662-2<br>CAS: 67-64-1<br><br>Index: 606-001-00-8 | >=1 - <5 | Xi; R38<br><br>R67<br><br>F; R11<br><br>Xi; R36<br>R66, R67<br><br><b>See Section 16 for<br/>the full text of the R-<br/>phrases declared<br/>above.</b> | child)<br>STOT SE 3, H336<br>(Narcotic effects)<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Flam. Liq. 2, H225<br><br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>(Narcotic effects)<br><br><b>See Section 16 for<br/>the full text of the H<br/>statements<br/>declared above.</b> | [1] [2] |
|---------|---------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

## SECTION 4: First aid measures

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

See toxicological information (Section 11)

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, carbon dioxide, powders.

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective equipment for fire-fighters** : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.

Keep unnecessary and unprotected personnel from entering.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**7.1 Precautions for safe handling**

- : Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.
- Information on fire and explosion protection**
- Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.

**7.2 Conditions for safe storage, including any incompatibilities**

- : Store in accordance with local regulations.
- Notes on joint storage**
- Keep away from: oxidizing agents, strong alkalis, strong acids.
- Additional information on storage conditions**
- Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
- Contaminated absorbent material may pose the same hazard as the spilled product.

**Seveso II Directive - Reporting thresholds (in tonnes)****Named substances**

| Name                              | Notification and MAPP threshold | Safety report threshold |
|-----------------------------------|---------------------------------|-------------------------|
| Formaldehyde concentration >= 90% | 5                               | 50                      |

**Danger criteria**

| Category                                                                                   | Notification and MAPP threshold | Safety report threshold |
|--------------------------------------------------------------------------------------------|---------------------------------|-------------------------|
| P5c: Flammable liquids 2 and 3 not falling under P5a or P5b<br>C7b: Highly flammable (R11) | 5000<br>5000                    | 50000<br>50000          |

**7.3 Specific end use(s)****Recommendations**

- : Not available.

## SECTION 7: Handling and storage

**Industrial sector specific solutions** : Not available.

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

**Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.**

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Styrene                 | <b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b><br>STEL: 250 ppm 15 minutes.<br>TWA: 100 ppm 8 hours.<br>TWA: 430 mg/m <sup>3</sup> 8 hours.<br>STEL: 1080 mg/m <sup>3</sup> 15 minutes.                      |
| Toluene                 | <b>EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.</b><br>STEL: 384 mg/m <sup>3</sup> 15 minutes.<br>TWA: 191 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.<br>STEL: 100 ppm 15 minutes. |
| Acetone                 | <b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b><br>STEL: 3620 mg/m <sup>3</sup> 15 minutes.<br>STEL: 1500 ppm 15 minutes.<br>TWA: 500 ppm 8 hours.<br>TWA: 1210 mg/m <sup>3</sup> 8 hours.                    |

**Recommended monitoring procedures** :

- If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available.

### 8.2 Exposure controls

**Appropriate engineering controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

## SECTION 8: Exposure controls/personal protection

- : Users are advised to consider national Occupational Exposure Limits or other equivalent values.

### Individual protection measures

#### **Hygiene measures**

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

- : Use safety eyewear designed to protect against splash of liquids.

#### **Skin protection**

#### **Hand protection**

#### **Gloves**

- : Wear suitable gloves tested to EN374.
- : Short Term Exposure less than 10 minutes Continuous use Nitrile gloves. Hazardous ingredients Section 3 For more than 4 hours of protection in the presence of Ethyl methyl ketone or Methyl ethyl ketone Acetone or Methyl isobutyl ketone Butyl gloves 0.7mm For more than 4 hours of protection in the presence of Aromatic solvent use polyvinyl alcohol (PVA) gloves.  
Long Term Exposure Spill / For prolonged or repeated handling, use PE / PE Laminate gloves > 8 hours (breakthrough time) .  
There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.  
The breakthrough time must be greater than the end use time of the product.  
The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.  
Gloves should be replaced regularly and if there is any sign of damage to the glove material.  
Always ensure that gloves are free from defects and that they are stored and used correctly.  
The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.  
Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.  
The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

#### **Body protection**

- : Personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.
- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

#### **Other skin protection**

- : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

- : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Recommended: A2P2 (EN14387). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### **Environmental exposure controls**

- : Do not allow to enter drains or watercourses.

**Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.**

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                                                     |                                                                                                         |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Physical state</b>                               | : Liquid.                                                                                               |
| <b>Color</b>                                        | : Not available.                                                                                        |
| <b>Odor</b>                                         | : Solvent.                                                                                              |
| <b>Odor threshold</b>                               | : Not Available (Not Tested).                                                                           |
| <b>pH</b>                                           | : Testing not technically possible.                                                                     |
| <b>Melting point/freezing point</b>                 | : Not Available (Not Tested).                                                                           |
| <b>Initial boiling point and boiling range</b>      | : 55°C                                                                                                  |
| <b>Flash point</b>                                  | : Closed cup: 18°C [Pensky-Martens Closed Cup]                                                          |
| <b>Evaporation rate</b>                             | : 5.6 (butyl acetate = 1)                                                                               |
| <b>Flammability (solid, gas)</b>                    | : Not Available (Not Tested).                                                                           |
| <b>Burning time</b>                                 | : Not Available (Not Tested).                                                                           |
| <b>Burning rate</b>                                 | : Not Available (Not Tested).                                                                           |
| <b>Upper/lower flammability or explosive limits</b> | : Lower: 1%<br>Upper: 12.8%                                                                             |
| <b>Vapor pressure</b>                               | : 3.2 kPa [at 20°C]                                                                                     |
| <b>Vapor density</b>                                | : 2 [Air = 1]                                                                                           |
| <b>Relative density</b>                             | : 1.47                                                                                                  |
| <b>Solubility(ies)</b>                              | : Not Available (Not Tested).                                                                           |
| <b>Solubility in water</b>                          | : Not Available (Not Tested).                                                                           |
| <b>Partition coefficient: n-octanol/ water</b>      | : Not Available (Not Tested).                                                                           |
| <b>Auto-ignition temperature</b>                    | : Not Available (Not Tested).                                                                           |
| <b>Decomposition temperature</b>                    | : Not Available (Not Tested).                                                                           |
| <b>Viscosity</b>                                    | : Kinematic (room temperature): <0.07 cm <sup>2</sup> /s<br>Kinematic (40°C): >0.205 cm <sup>2</sup> /s |
| <b>Explosive properties</b>                         |                                                                                                         |
| <b>Oxidizing properties</b>                         | : Under normal conditions of storage and use, hazardous reactions will not occur.                       |

### 9.2 Other information

|                           |                    |
|---------------------------|--------------------|
| <b>Heat of combustion</b> | : 0.000009144 kJ/g |
|---------------------------|--------------------|

## SECTION 10: Stability and reactivity

|                                                |                                                                                                                                  |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.                                     |
| <b>10.2 Chemical stability</b>                 | : Stable under recommended storage and handling conditions (see Section 7).                                                      |
| <b>10.3 Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                                                |
| <b>10.4 Conditions to avoid</b>                | : When exposed to high temperatures may produce hazardous decomposition products.                                                |
| <b>10.5 Incompatible materials</b>             | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. |



**SECTION 10: Stability and reactivity**

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

**Acute toxicity**

| Product/ingredient name | Result                | Species | Dose                    | Exposure |
|-------------------------|-----------------------|---------|-------------------------|----------|
| Styrene                 | LC50 Inhalation Gas.  | Rat     | 2770 ppm                | 4 hours  |
|                         | LC50 Inhalation Vapor | Rat     | 11800 mg/m <sup>3</sup> | 4 hours  |
|                         | LD50 Oral             | Rat     | 2650 mg/kg              | -        |
| Toluene                 | LC50 Inhalation Vapor | Rat     | 49 g/m <sup>3</sup>     | 4 hours  |
|                         | LD50 Oral             | Rat     | 636 mg/kg               | -        |
| Acetone                 | LD50 Oral             | Rat     | 5800 mg/kg              | -        |

**Acute toxicity estimates**

| Route               | ATE value  |
|---------------------|------------|
| Inhalation (gases)  | 8877.8 ppm |
| Inhalation (vapors) | 37.82 mg/l |

**Irritation/Corrosion**

| Product/ingredient name | Result                   | Species | Score | Exposure                 | Observation |
|-------------------------|--------------------------|---------|-------|--------------------------|-------------|
| Styrene                 | Eyes - Mild irritant     | Human   | -     | 50 parts per million     | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams  | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 100 milligrams           | -           |
| Toluene                 | Skin - Mild irritant     | Rabbit  | -     | 500 milligrams           | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 100 Percent              | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 0.5 minutes              | -           |
|                         |                          |         |       | 100 milligrams           |             |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 870 Micrograms           | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2 milligrams    | -           |
|                         | Skin - Mild irritant     | Pig     | -     | 24 hours 250 microliters | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 435 milligrams           | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 milligrams   | -           |

**SECTION 11: Toxicological information**

|         |                          |        |   |                          |   |
|---------|--------------------------|--------|---|--------------------------|---|
| Acetone | Skin - Moderate irritant | Rabbit | - | 500 milligrams           | - |
|         | Eyes - Mild irritant     | Human  | - | 186300 parts per million | - |
|         | Eyes - Mild irritant     | Rabbit | - | 10 microliters           | - |
|         | Eyes - Moderate irritant | Rabbit | - | 24 hours 20 milligrams   | - |
|         | Eyes - Severe irritant   | Rabbit | - | 20 milligrams            | - |
|         | Skin - Mild irritant     | Rabbit | - | 24 hours 500 milligrams  | - |
|         | Skin - Mild irritant     | Rabbit | - | 395 milligrams           | - |

**Conclusion/Summary** : Not available.**Sensitization**

No data available

**Conclusion/Summary** : Not available.**Mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Teratogenicity**

No data available

**Specific target organ toxicity (single exposure)**

| Product/ingredient name | Category   | Route of exposure | Target organs    |
|-------------------------|------------|-------------------|------------------|
| Toluene                 | Category 3 | Not applicable.   | Narcotic effects |
| Acetone                 | Category 3 | Not applicable.   | Narcotic effects |

**Specific target organ toxicity (repeated exposure)**

| Product/ingredient name | Category   | Route of exposure | Target organs  |
|-------------------------|------------|-------------------|----------------|
| Toluene                 | Category 2 | Not determined    | Not determined |

**Aspiration hazard**

| Product/ingredient name | Result                         |
|-------------------------|--------------------------------|
| Toluene                 | ASPIRATION HAZARD - Category 1 |

**Other information** : Not available.**SECTION 12: Ecological information****12.1 Toxicity**

There are no data available on the mixture itself.  
Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

## SECTION 12: Ecological information

| Product/ingredient name | Result                              | Species                                                             | Exposure |
|-------------------------|-------------------------------------|---------------------------------------------------------------------|----------|
| Styrene                 | Acute EC50 1400 µg/l Fresh water    | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
|                         | Acute EC50 720 µg/l Fresh water     | Algae - Pseudokirchneriella subcapitata                             | 96 hours |
|                         | Acute EC50 4700 µg/l Fresh water    | Daphnia - Daphnia magna                                             | 48 hours |
|                         | Acute LC50 52000 µg/l Marine water  | Crustaceans - Artemia salina - Nauplii                              | 48 hours |
|                         | Acute LC50 4020 µg/l Fresh water    | Fish - Pimephales promelas                                          | 96 hours |
|                         | Chronic NOEC 63 µg/l Fresh water    | Algae - Pseudokirchneriella subcapitata                             | 96 hours |
| Toluene                 | Acute EC50 12500 µg/l Fresh water   | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
|                         | Acute EC50 11600 µg/l Fresh water   | Crustaceans - Gammarus pseudolimnaeus - Adult                       | 48 hours |
|                         | Acute EC50 6000 µg/l Fresh water    | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
|                         | Acute LC50 5500 µg/l Fresh water    | Fish - Oncorhynchus kisutch - Fry                                   | 96 hours |
| Acetone                 | Chronic NOEC 1000 µg/l Fresh water  | Daphnia - Daphnia magna                                             | 21 days  |
|                         | Acute EC50 20.565 mg/l Marine water | Algae - Ulva pertusa                                                | 96 hours |
|                         | Acute LC50 6000000 µg/l Fresh water | Crustaceans - Gammarus pulex                                        | 48 hours |
|                         | Acute LC50 10000 µg/l Fresh water   | Daphnia - Daphnia magna                                             | 48 hours |
|                         | Acute LC50 5600 ppm Fresh water     | Fish - Poecilia reticulata                                          | 96 hours |
|                         | Chronic NOEC 4.95 mg/l Marine water | Algae - Ulva pertusa                                                | 96 hours |
|                         | Chronic NOEC 0.016 ml/L Fresh water | Crustaceans - Daphniidae                                            | 21 days  |
|                         | Chronic NOEC 0.1 ml/L Fresh water   | Daphnia - Daphnia magna - Neonate                                   | 21 days  |
|                         | Chronic NOEC 5 µg/l Marine water    | Fish - Gasterosteus aculeatus - Larvae                              | 42 days  |

### 12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-------------------------|------|--------|------|----------|
| No data available       |      |        |      |          |

**Conclusion/Summary** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| Toluene                 | -                 | -          | Readily          |
| Acetone                 | -                 | -          | Readily          |

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF   | Potential |
|-------------------------|--------------------|-------|-----------|
| Styrene                 | -                  | 13.49 | low       |
| Toluene                 | -                  | 90    | low       |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

**SECTION 12: Ecological information**

- 12.6 Other adverse effects** : No known significant effects or critical hazards.
- : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Hazardous waste** : Yes.
- European waste catalogue (EWC)** : waste paint and varnish containing organic solvents or other dangerous substances 08 01 11\*
- Disposal considerations** : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

**Packaging**

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
- European waste catalogue (EWC)** : packaging containing residues of or contaminated by dangerous substances 15 01 10\*
- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

|                                                  | ADR/RID                                                                                  | IMDG                                                                                     | IATA                                                                                       |
|--------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>14.1 UN number</b>                            | UN1263                                                                                   | UN1263                                                                                   | UN1263                                                                                     |
| <b>14.2 UN proper shipping name</b>              | PAINT                                                                                    | PAINT                                                                                    | PAINT                                                                                      |
| <b>14.3 Transport Hazard Class(es)/ Label(s)</b> | 3<br> | 3<br> | 3<br> |
| <b>14.4 Packing group</b>                        | III                                                                                      | III                                                                                      | III                                                                                        |
|                                                  |                                                                                          |                                                                                          |                                                                                            |

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## SECTION 14: Transport information

|                                   |                                                                       |                                              |                                             |
|-----------------------------------|-----------------------------------------------------------------------|----------------------------------------------|---------------------------------------------|
| <b>14.5 Environmental hazards</b> | No.                                                                   | No.                                          | No.                                         |
| <b>Additional information</b>     | <u>Special provisions</u><br>640 (E)<br><br><u>Tunnel code</u><br>D/E | <u>Emergency schedules (EmS)</u><br>F-E, S-E | <u>Special provisions</u><br>Not Applicable |

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

*Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.*

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**EU Regulation (EC) No. 1907/2006 (REACH)**

### Annex XIV - List of substances subject to authorization

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

### Other EU regulations

**European Directive 2004/42/EC** : Exclusively for uses non-regulated by directive 2004/42/EC

**Integrated pollution prevention and control list (IPPC) - Air** : Listed

| Product/ingredient name | Carcinogenic effects | Mutagenic effects | Developmental effects         | Fertility effects |
|-------------------------|----------------------|-------------------|-------------------------------|-------------------|
| Toluene                 | -                    | -                 | Repr. 2, H361d (Unborn child) | -                 |

### Seveso II Directive

This product is controlled under the Seveso II Directive.

### Named substances

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## SECTION 15: Regulatory information

Name

Formaldehyde (max.)

### Danger criteria

Category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b  
C7b: Highly flammable (R11)

### National regulations

#### **Industrial use**

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

### International regulations

#### **15.2 Chemical Safety Assessment**

: This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

#### **Abbreviations and acronyms**

: ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
vPvB = Very Persistent and Very Bioaccumulative

#### **Key literature references and sources for data**

: Regulation (EC) No. 1272/2008 [CLP]  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
DPD = Dangerous Preparations Directive [1999/45/EC]  
DSD = Dangerous Substances Directive [67/548/EEC]  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010  
Directive 96/82/EC, and relative amendments & additions  
Directive 2008/98/EC, and relative amendments & additions  
Directive 2000/39/EC, and relative amendments & additions  
CEPE Guidelines

### **Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| Classification                                                                                                         | Justification                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Repr. 2, H361d (Unborn child) | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method |

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## SECTION 16: Other information

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Full text of abbreviated H statements</b>  | : H225<br>H226<br>H304<br>H315<br>H319<br>H332<br>(inhalation)<br>H336 (Narcotic effects)<br>H361d (Unborn child)<br>H373                                                                                                                                                                                                                                                                                                                                                                            | Highly flammable liquid and vapor.<br>Flammable liquid and vapor.<br>May be fatal if swallowed and enters airways.<br>Causes skin irritation.<br>Causes serious eye irritation.<br>Harmful if inhaled.<br>May cause drowsiness and dizziness. (Narcotic effects)<br>Suspected of damaging the unborn child.<br>May cause damage to organs through prolonged or repeated exposure.                                                                       |
| <b>Full text of classifications [CLP/GHS]</b> | : Acute Tox. 4, H332<br>Asp. Tox. 1, H304<br>Eye Irrit. 2, H319<br>Flam. Liq. 2, H225<br>Flam. Liq. 3, H226<br>Repr. 2, H361d (Unborn child)<br>Skin Irrit. 2, H315<br>STOT RE 2, H373<br><br>STOT SE 3, H336 (Narcotic effects)                                                                                                                                                                                                                                                                     | ACUTE TOXICITY (inhalation) - Category 4<br>ASPIRATION HAZARD - Category 1<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2<br>FLAMMABLE LIQUIDS - Category 2<br>FLAMMABLE LIQUIDS - Category 3<br>TOXIC TO REPRODUCTION (Unborn child) - Category 2<br>SKIN CORROSION/IRRITATION - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| <b>Full text of abbreviated R phrases</b>     | : R11- Highly flammable.<br>R10- Flammable.<br>R63- Possible risk of harm to the unborn child.<br>R20- Harmful by inhalation.<br>R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.<br>R65- Harmful: may cause lung damage if swallowed.<br>R36- Irritating to eyes.<br>R38- Irritating to skin.<br>R36/38- Irritating to eyes and skin.<br>R66- Repeated exposure may cause skin dryness or cracking.<br>R67- Vapors may cause drowsiness and dizziness. |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Full text of classifications [DSD/DPD]</b> | : F - Highly flammable<br>Repr. Cat. 3 - Toxic to reproduction category 3<br>Xn - Harmful<br>Xi - Irritant                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Date of printing</b>                       | : 19, Apr, 2015.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Date of issue/ Date of revision</b>        | : 19, Apr, 2015.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Date of previous issue</b>                 | : No previous validation.<br><br>: If there is no previous validation date please contact your supplier for more information.                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Version</b>                                | : 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### Notice to reader

**It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his**

## SECTION 16: Other information

*activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.*