

# SAFETY DATA SHEET



Date of issue/Date of revision 5 April 2016

Version 2

## Section 1. Identification

**Product name** : Ciptane™ LP  
**Product code** : 0993  
**Other means of identification** : Not available.  
**Product type** : Powder.

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

**Product use** : Industrial applications.  
**Use of the substance/ mixture** : Additive  
**Uses advised against** : ☒ None identified.

**Manufacturer** : PPG Industries, Inc.  
One PPG Place  
Pittsburgh, PA 15272  
**Emergency telephone number** : (412) 434-4515 (U.S.)

**Technical Phone Number** : 1-800-243-6745 (Silica) 8am-5pm Eastern time

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : SKIN SENSITIZATION - Category 1

### GHS label elements

**Hazard pictograms** :



**Signal word** : ☒ Warning

**Hazard statements** : May cause an allergic skin reaction.

### Precautionary statements

**Prevention** : ☒ Wear protective gloves. Avoid breathing dust. Contaminated work clothing must not be allowed out of the workplace.

**Response** : IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.

**Storage** : Not applicable.

## Section 2. Hazards identification

- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** : Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Emits toxic fumes when heated. Fine dust clouds may form explosive mixtures with air.
- Hazards not otherwise classified** : Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

## Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Product name** : Ciptane™ LP

| Ingredient name                         | %    | CAS number  |
|-----------------------------------------|------|-------------|
| Silica, amorphous, precipitated and gel | 97.5 | 112926-00-8 |
| 3-trimethoxysilylpropane-1-thiol        | 2.5  | 4420-74-0   |

Contains no detectable crystalline silica (detection limit <0.1% by weight).

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**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 and hence require reporting in this section.**

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

## Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### Description of necessary first aid measures

- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- 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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
- Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

## Section 4. First aid measures

- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
irritation  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : Fine dust clouds may form explosive mixtures with air. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon oxides  
sulfur oxides  
metal oxide/oxides

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

## Section 5. Fire-fighting measures

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Product forms slippery surface when combined with water. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized 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".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

- Small spill** : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

- 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

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Avoid alteration of product properties before use. Calcining (which may result in crystalline formation) or mixing with additives may alter

## Section 7. Handling and storage

toxicological properties.

When transferring material into flammable solvents, use proper grounding to avoid electrical sparks. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name                         | Exposure limits |
|-----------------------------------------|-----------------|
| Silica, amorphous, precipitated and gel | None.           |
| 3-trimethoxysilylpropane-1-thiol        | None.           |

#### Key to abbreviations

|                                                                      |                                         |
|----------------------------------------------------------------------|-----------------------------------------|
| A = Acceptable Maximum Peak                                          | S = Potential skin absorption           |
| ACGIH = American Conference of Governmental Industrial Hygienists.   | SR = Respiratory sensitization          |
| C = Ceiling Limit                                                    | SS = Skin sensitization                 |
| F = Fume                                                             | STEL = Short term Exposure limit values |
| IPEL = Internal Permissible Exposure Limit                           | TD = Total dust                         |
| OSHA = Occupational Safety and Health Administration.                | TLV = Threshold Limit Value             |
| R = Respirable                                                       | TWA = Time Weighted Average             |
| Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances |                                         |

### Consult local authorities for acceptable exposure limits.

**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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Environmental exposure controls

## Section 8. Exposure controls/personal protection

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### 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.

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

- : Safety glasses with side shields.

#### Skin protection

##### Hand protection

- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

##### Gloves

- : butyl rubber

##### Body protection

- : 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.

##### 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

- : 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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## Section 9. Physical and chemical properties

### Appearance

#### Physical state

- : Solid.

#### Color

- : White.

#### Odor

- : Slight

#### Odor threshold

- : Not available.

#### pH

- : 6.5 to 7.3 (5% Suspension)

#### Melting point

- : Not available.

#### Boiling point

- : Not available.

#### Flash point

- : Closed cup: Not applicable. [Product does not sustain combustion.]

#### Auto-ignition temperature

- : Not available.

#### Decomposition temperature

- : Not available.

#### Flammability (solid, gas)

- : Not available.

## Section 9. Physical and chemical properties

|                                              |                                                     |
|----------------------------------------------|-----------------------------------------------------|
| Lower and upper explosive (flammable) limits | : Not available.                                    |
| Evaporation rate                             | : Not available.                                    |
| Vapor pressure                               | : Not available.                                    |
| Vapor density                                | : Not available.                                    |
| Relative density                             | : Variable                                          |
| Solubility                                   | : Insoluble in the following materials: cold water. |
| Partition coefficient: n-octanol/water       | : Not available.                                    |
| Viscosity                                    | : Not Applicable                                    |
| Volatility                                   | : < 0.03% (v/v)                                     |
| % Solid. (w/w)                               | : 100                                               |

## Section 10. Stability and reactivity

|                                    |                                                                                                                                                                                                                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.                                                                                                                                                                                                       |
| Chemical stability                 | : Stable under recommended storage and handling conditions (see Section 7).                                                                                                                                                                                                                        |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.                                                                                                                                                                                                                  |
| Conditions to avoid                | <p>: High temperature (&gt;800 C) treatment (calcining). Avoid alteration of product properties before use. Calcining (which may result in crystalline formation) or mixing with additives may alter toxicological properties.</p> <p>Refer to protective measures listed in sections 7 and 8.</p> |
| Incompatible materials             | : Reactive or incompatible with the following materials: oxidizing agents, strong alkalis, strong acids.                                                                                                                                                                                           |
| Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.                                                                                                                                                                                             |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name          | Result      | Species | Dose      | Exposure |
|----------------------------------|-------------|---------|-----------|----------|
| 3-trimethoxysilylpropane-1-thiol | LD50 Dermal | Rabbit  | 5.88 g/kg | -        |
|                                  | LD50 Oral   | Rat     | 2.94 g/kg | -        |

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Irritation/Corrosion

## Section 11. Toxicological information

### Conclusion/Summary

- Skin** : There are no data available on the mixture itself.  
**Eyes** : There are no data available on the mixture itself.  
**Respiratory** : There are no data available on the mixture itself.

### Sensitization

#### Conclusion/Summary

- Skin** : There are no data available on the mixture itself.  
**Respiratory** : There are no data available on the mixture itself.

### Mutagenicity

- Conclusion/Summary** : There are no data available on the mixture itself.

### Carcinogenicity

- Conclusion/Summary** : There are no data available on the mixture itself.

### Reproductive toxicity

- Conclusion/Summary** : There are no data available on the mixture itself.

### Teratogenicity

- Conclusion/Summary** : There are no data available on the mixture itself.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

- Target organs** : Contains material which causes damage to the following organs: lungs, upper respiratory tract, skin, eyes.

### Aspiration hazard

Not available.

## Information on the likely routes of exposure

### Potential acute health effects

- Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.  
**Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.  
**Skin contact** : May cause an allergic skin reaction.  
**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
irritation  
redness  
**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness



## Section 11. Toxicological information

**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Conclusion/Summary** : An epidemiological study was conducted which included 165 precipitated silica workers who had been exposed an average time span of 8.6 years. Of these 165 workers, 44 had been exposed for an average of 18 years. No adverse effects were noted in complete medical examinations (including chest roentgenograms) of these workers. Pulmonary function decrements were correlated only with smoking and age but not with the degree or duration of dust exposures. Laboratory studies have also been conducted in small animals via inhalation of levels of precipitated silica dust of up to 126 mg/cu.m. per periods from six months to two years. Although precipitated silica was temporarily deposited in the animals' lungs, most of the deposited material was cleared soon after the dust exposure ended. The results of all studies performed by, or known to, PPG indicate a very low order of pulmonary activity for synthetic precipitated silicas. PPG recommends that persons with breathing problems or lung disease should not work in dusty areas unless a physician approves and certifies their fitness to wear respiratory protection. Note: The information above is for untreated hydrated amorphous silica. This product would be expected to have the same toxicological properties.

### Short term exposure

**Potential immediate effects** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**Potential delayed effects** : May cause allergic skin reactions with repeated exposure.

### Long term exposure

**Potential immediate effects** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

**Potential delayed effects** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

### Potential chronic health effects

**General** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route | ATE value   |
|-------|-------------|
| Oral  | 20000 mg/kg |

**Product code** 0993**Date of issue** 5 April 2016**Version** 2**Product name** Ciptane™ LP

## Section 12. Ecological information

### Toxicity

| Product/ingredient name                 | Result                            | Species                  | Exposure           |
|-----------------------------------------|-----------------------------------|--------------------------|--------------------|
| Silica, amorphous, precipitated and gel | NOEC >1000 ppm                    | Daphnia - Daphnia magna  | 24 hours           |
|                                         | Acute NOEC >10000 ppm Fresh water | Fish                     | 96 hours<br>Static |
|                                         | Acute NOEC >10000 ppm             | Fish - Brachydanio rerio | 4 days<br>Static   |

### Persistence and degradability

| Product/ingredient name                 | Aquatic half-life | Photolysis | Biodegradability |
|-----------------------------------------|-------------------|------------|------------------|
| Silica, amorphous, precipitated and gel | -                 | -          | Not readily      |

### Bioaccumulative potential

| Product/ingredient name                 | LogP <sub>ow</sub> | BCF | Potential |
|-----------------------------------------|--------------------|-----|-----------|
| Silica, amorphous, precipitated and gel | -                  | 0   | low       |

### Mobility in soil

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

## Section 13. Disposal considerations

**Disposal methods** : 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## 14. Transport information

## 14. Transport information

|                                    | DOT             | IMDG            | IATA            |
|------------------------------------|-----------------|-----------------|-----------------|
| <b>UN number</b>                   | Not regulated.  | Not regulated.  | Not regulated.  |
| <b>UN proper shipping name</b>     | -               | -               | -               |
| <b>Transport hazard class (es)</b> | -               | -               | -               |
| <b>Packing group</b>               | -               | -               | -               |
| <b>Environmental hazards</b>       | No.             | No.             | No.             |
| <b>Marine pollutant substances</b> | Not applicable. | Not applicable. | Not applicable. |

### Additional information

**DOT** : None identified.  
**IMDG** : None identified.  
**IATA** : None identified.

**Special precautions for user** :

## Section 15. Regulatory information

### United States

**United States inventory (TSCA 8b)** : All components are listed or exempted.

### SARA 302/304

**SARA 304 RQ** : Not applicable.

### Composition/information on ingredients

No products were found.

### SARA 311/312

**Classification** : Immediate (acute) health hazard

### Composition/information on ingredients

| Name                             | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|----------------------------------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| 3-trimethoxysilylpropane-1-thiol | No.         | No.                        | No.      | Yes.                            | No.                             |

**Product code** 0993

**Date of issue** 5 April 2016

**Version** 2

**Product name** Ciptane™ LP

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

**Health** : 2      **Flammability** : 0      **Physical hazards** : 0

(\*) - Chronic effects

**Caution:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)

**Health** : 2      **Flammability** : 0      **Instability** : 0

**Other information** :  Ciptane is a trademark of PPG Industries Ohio, Inc.

the PPG logo is a registered trademark of PPG Industries Ohio, Inc.

**Date of previous issue** : 12/23/2014

**Organization that prepared the MSDS** : EHS

**Key to abbreviations** : ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

 Indicates information that has changed from previously issued version.

### Disclaimer

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*