1 Identification

- **Product identifier**
  - **Product number** PL50
  - **Trade name**: **WHITE POLYURETHNE SATIN FINISH**
    - **Application of the substance / the mixture** For professional use

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier**: IVM Chemicals srl
    - Viale della Stazione 3 - 27020 Parona (PV) Italy tel +39 038425441

1.3.2 Importer
Name I.C. & S. DISTRIBUTING CO.
Address P.O.BOX 10845
LANCASTER, PA
USA
E-Mail: nelson@ics-company.com

- **Information department**: Environmental Health and safety office
  - hseoffice@ivmchemicals.com
- **Emergency telephone number**: ChemTel Expert Assistance Hotline/MSDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) Identification

- **Classification of the substance or mixture**
  - GHS02 Flame
    - Flam. Liq. 2 H225 Highly flammable liquid and vapor.
  - GHS08 Health hazard
    - Carc. 2 H351 Suspected of causing cancer.
    - Repr. 2 H361 Suspected of damaging fertility or the unborn child.
    - STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.
  - GHS07
    - Skin Irrit. 2 H315 Causes skin irritation.
    - Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**
  - GHS label elements
    - The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms
    - GHS02
    - GHS07
    - GHS08

(Contd. on page 2)
Signal word Danger

Hazard-determining components of labeling:
- xylene
- ethylbenzene

Hazard statements
- H225 Highly flammable liquid and vapor.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to the hearing organs through prolonged or repeated exposure.

Precautionary statements
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:
- NFPA ratings (scale 0 - 4)
  - Health = 2
  - Fire = 3
  - Reactivity = 0
- HMIS-ratings (scale 0 - 4)
  - HEALTH 2
  - FIRE 3
  - REACTIVITY 0

3 Composition/information on ingredients

Chemical characterization: Mixtures
Description: Mixture: consisting of the following components.

Dangerous components:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>NFPA Health</th>
<th>NFPA Fire</th>
<th>NFPA Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7 xylene</td>
<td>15-19.99%</td>
<td>2</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>110-19-0 isobutyl acetate</td>
<td>5-9.99%</td>
<td>2</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
<td>2.5-4.99%</td>
<td>2</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

(Contd. on page 3)
4 First-aid measures

- Description of first aid measures
  - General information:
    Immediately remove any clothing soiled by the product.
    Symptoms of poisoning may even occur after several hours; therefore medical observation for
    at least 48 hours after the accident.
    Personal protective equipment for first aid responders is recommended. (please see section 8)
  - After inhalation:
    In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact:
    Immediately wash with water and soap and rinse thoroughly.
    Take off immediately all contaminated clothing, include underwear and shoes (if necessary).
    Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If
    medical advise is needed have products container or label at hand.
  - After eye contact:
    Rinse opened eye for several minutes under running water. If symptoms persist, consult a
    doctor.
  - After swallowing:
    Do not induce vomiting; immediately call for medical help.
  - Information for doctor:
    - Most important symptoms and effects, both acute and delayed
      For symptoms and effects caused by substances, refer to Section 11.
      No further relevant information available.
    - Indication of any immediate medical attention and special treatment needed
      No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents: Alcohol resistant foam, CO₂, powder, water spray/mist.
  - For safety reasons unsuitable extinguishing agents:
    Do not use a jet water stream as it may scatter and spread fire.
Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.

Advice for firefighters
Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.

Protection equipment:
Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to Section 13.
Ensure adequate ventilation.

- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Protective Action Criteria for Chemicals

PAC-1:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7 xylene</td>
<td>130 ppm</td>
</tr>
<tr>
<td>110-19-0 isobutyl acetate</td>
<td>450 ppm</td>
</tr>
<tr>
<td>7631-86-9 silicon dioxide, chemically prepared</td>
<td>18 mg/m³</td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
<td>33 ppm</td>
</tr>
<tr>
<td>141-78-6 ethyl acetate</td>
<td>1,200 ppm</td>
</tr>
<tr>
<td>123-86-4 n-butyl acetate</td>
<td>5 ppm</td>
</tr>
<tr>
<td>78-93-3 butanone</td>
<td>200 ppm</td>
</tr>
<tr>
<td>9002-88-4 Polyethylene low density</td>
<td>16 mg/m³</td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>67 ppm</td>
</tr>
<tr>
<td>108-10-1 4-methylpentan-2-one</td>
<td>75 ppm</td>
</tr>
<tr>
<td>108-94-1 cyclohexanone</td>
<td>60 ppm</td>
</tr>
<tr>
<td>108-32-7 propylene carbonate</td>
<td>34 mg/m³</td>
</tr>
<tr>
<td>67-63-0 propan-2-ol</td>
<td>400 ppm</td>
</tr>
<tr>
<td>108-65-6 2-methoxy-1-methylethyl acetate</td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

PAC-2:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7 xylene</td>
<td>920* ppm</td>
</tr>
<tr>
<td>110-19-0 isobutyl acetate</td>
<td>1300* ppm</td>
</tr>
<tr>
<td>7631-86-9 silicon dioxide, chemically prepared</td>
<td>740 mg/m³</td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
<td>1,100* ppm</td>
</tr>
<tr>
<td>141-78-6 ethyl acetate</td>
<td>1,700 ppm</td>
</tr>
</tbody>
</table>
### 7 Handling and storage

**Handling:**

- **Precautions for safe handling**
  - Ensure good ventilation/exhaustion at the workplace.
  - Open and handle receptacle with care.
  - Prevent formation of aerosols.
  - Protect against electrostatic charges.
  - Keep respiratory protective device available.
  - Use explosion-proof apparatus / fittings and spark-proof tools.

- **Information about protection against explosions and fires:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Keep respiratory protective device available.

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

- **Storage:**
  - **Requirements to be met by storerooms and receptacles:**
    - Store in a cool, well-ventilated area, away from heat and sources of ignition.
    - Provide solvent resistant, sealed floor.
    - Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
    - In cases where there is no reported expiration date, it means that the product must be used within 8 months.
8 Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see item 7.

**Control parameters**

- Components with limit values that require monitoring at the workplace:
  - The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
  - At this time, the other constituents have no known exposure limits.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>110-19-0 isobutyl acetate</td>
<td>Long-term value: 700 mg/m³, 150 ppm</td>
<td>Long-term value: 700 mg/m³, 150 ppm</td>
<td>Short-term value: 712 mg/m³, 150 ppm</td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
<td>Long-term value: 435 mg/m³, 100 ppm</td>
<td>Short-term value: 545 mg/m³, 125 ppm</td>
<td>Long-term value: 435 mg/m³, 100 ppm</td>
</tr>
<tr>
<td>141-78-6 ethyl acetate</td>
<td>Long-term value: 1400 mg/m³, 400 ppm</td>
<td>Long-term value: 1400 mg/m³, 400 ppm</td>
<td>Long-term value: 1440 mg/m³, 400 ppm</td>
</tr>
<tr>
<td>123-86-4 n-butyl acetate</td>
<td>Long-term value: 710 mg/m³, 150 ppm</td>
<td>Short-term value: 950 mg/m³, 200 ppm</td>
<td>Short-term value: 712 mg/m³, 150 ppm</td>
</tr>
<tr>
<td>108-10-1 4-methylpentan-2-one</td>
<td>Long-term value: 410 mg/m³, 100 ppm</td>
<td>Short-term value: 300 mg/m³, 75 ppm</td>
<td>Short-term value: 307 mg/m³, 75 ppm</td>
</tr>
<tr>
<td>1330-20-7 xylene</td>
<td>BEI (USA) 1.5 g/g creatinine</td>
<td>Medium: urine</td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: Methylhippuric acids</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 100-41-4 ethylbenzene

**BEI (USA)** 0.7 g/g creatinine  
Medium: urine  
Time: end of shift at end of workweek  
Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

- Medium: end-exhaled air  
  Time: not critical  
  Parameter: Ethyl benzene (semi-quantitative)

### 108-88-3 toluene

**BEI (USA)** 0.02 mg/L  
Medium: blood  
Time: prior to last shift of workweek  
Parameter: Toluene

0.03 mg/L  
Medium: urine  
Time: end of shift  
Parameter: Toluene

0.3 mg/g creatinine  
Medium: urine  
Time: end of shift  
Parameter: o-Cresol with hydrolysis (background)

### 108-10-1 4-methylpentan-2-one

**BEI (USA)** 1 mg/L  
Medium: urine  
Time: end of shift  
Parameter: MIBK

---

**Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**  
      Keep away from foodstuffs, beverages and feed.  
      Immediately remove all soiled and contaminated clothing.  
      Wash hands before breaks and at the end of work.  
      Store protective clothing separately.  
      Avoid contact with the eyes and skin.  
      Pregnant women should strictly avoid inhalation or skin contact.  
    - **Breathing equipment:**  
      In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.  
    - **Protection of hands:**

      Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The glove material has to be impermeable and resistant to the product.
Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:
Tightly sealed goggles

9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance: Fluid
    - Form: Fluid
    - Color: According to product specification
    - Odor: Characteristic
    - Odor threshold: Not determined.
  - pH-value: Not determined.
  - Change in condition
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: 77 °C (170.6 °F)
  - Flash point: -4 °C (24.8 °F)
  - Flammability (solid, gaseous): Not applicable.
  - Ignition temperature: 370 °C (698 °F)
  - Decomposition temperature: Not determined.
  - Auto igniting: Product is not selfigniting.
  - Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
  - Explosion limits:
    - Lower: 1 Vol %
    - Upper: 11.5 Vol %
  - Vapor pressure at 20 °C (68 °F): 97 hPa (72.8 mm Hg)
  - Density (+/- 0.03) at 20 °C (68 °F): 1.293 g/cm³ (10.79 lbs/gal)
    - Relative density: Not determined.
    - Vapor density: Not determined.
    - Evaporation rate: Not determined.
  - Solubility in / Miscibility with
    - Water: Not miscible or difficult to mix.
  - Partition coefficient (n-octanol/water): Not determined.
49.0.14

· Viscosity:
  · Dynamic: Not determined.
  · Kinematic at 20 °C (68 °F): 101 s (ISO 6 mm)

· Oxidising properties: N.A.

· Solvent content:
  · Water: 0.0 %
  · VOC content: 34.80 %
    450.0 g/l / 3.76 lb/gal

· Solids content: 64.9 %

· Other information (HAPS) No further relevant information available.

1330-20-7 xylene 15-19.99%
100-41-4 ethylbenzene 2.5-4.99%
108-88-3 toluene 0.5-1%
108-10-1 4-methylpentan-2-one ≥0.1-<0.5%

10 Stability and reactivity

· Reactivity typical of the product as indicated in the data sheet
  · Chemical stability The product is stable in normal conditions of storage and use recommended
  · Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions
  Reacts with oxidizing agents.
  Vapours may form explosive mixtures with air
  · Conditions to avoid No further relevant information available.
  · Incompatible materials: No further relevant information available.
  · Hazardous decomposition products:
    in case of possible formation of combustion:
    Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects
  · Acute toxicity:
    · LD/LC50 values that are relevant for classification:

  1330-20-7 xylene
    Oral LD50. 3,523 mg/kg (mouse)
    Dermal LD50. 12,126 mg/kg (rabbit)
    Inhalative LC50/4h. 27,571 mg/l (mouse)

  110-19-0 isobutyl acetate
    Oral LD50 13,400 mg/kg (mouse)
    Dermal LD50 17,401 mg/kg (rabbit)
    Inhalative LC50/4 h 31 mg/l (mouse)

  100-41-4 ethylbenzene
    Oral LD50 3,500 mg/kg (mouse)
## Safety Data Sheet

**Product number PL50**

**Trade name:** WHITE POLYURETHANE SATIN FINISH

### 49.0.14

<table>
<thead>
<tr>
<th>Chemical</th>
<th>LD50 (mg/kg) (rabbit)</th>
<th>LC50/4 h (mg/l) (mouse)</th>
</tr>
</thead>
<tbody>
<tr>
<td>141-78-6 ethyl acetate</td>
<td>4,934</td>
<td>17.2</td>
</tr>
<tr>
<td>123-86-4 n-butyl acetate</td>
<td>10,760</td>
<td>21.1</td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>5,000</td>
<td>25.7</td>
</tr>
<tr>
<td>108-10-1 4-methylpentan-2-one</td>
<td>2,080</td>
<td>16.6</td>
</tr>
<tr>
<td>108-94-1 cyclohexanone</td>
<td>1,890</td>
<td>6.3</td>
</tr>
<tr>
<td>64-17-5 ethanol</td>
<td>10,470</td>
<td>124.7</td>
</tr>
</tbody>
</table>

- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Irritating effect.
  - **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**
  - Irritant
  - Causes skin irritation.
  - Causes serious eye irritation.
  - May cause damage to the hearing organs through prolonged or repeated exposure.
  - Contains Fatty acids, tallow, oleylamine compounds. May produce an allergic reaction.

- **Carcinogenic categories**
  - Titanium dioxide
    - IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."
  - Ethylbenzene
    - From IARC MONOGRAPHS VOLUME 77/2000
    - Human carcinogenicity data
      - Two studies of workers potentially exposed to ethylbenzene in a production plant and a styrene polymerization plant were available. In the first study, no excess of cancer incidence was observed. In the second, there was no increase in mortality compared to expected deaths. However, an increased death rate from respiratory causes was observed in both cases. For both studies, no increase in cancer incidence was observed in workers exposed to ethylbenzene. Therefore, ethylbenzene is considered a non-carcinogenic substance.
was found but the description of methods was insufficient to allow proper evaluation of this finding. In the second study, no cancer mortality excess was observed during the follow-up of 15 years.

Evaluation
There is inadequate evidence in humans for the carcinogenicity of ethylbenzene. There is sufficient evidence in experimental animals for the carcinogenicity of ethylbenzene.

<table>
<thead>
<tr>
<th>IARC (International Agency for Research on Cancer - Cl. 1 and 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13463-67-7 Titanium dioxide C.I. 77891 Pigment white 6</td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
</tr>
<tr>
<td>108-10-1 4-methylpentan-2-one</td>
</tr>
</tbody>
</table>

| NTP (National Toxicology Program)                                                          |
| None of the ingredients is listed.                                                          |

| OSHA-Ca (Occupational Safety & Health Administration)                                    |
| None of the ingredients is listed.                                                          |

12 Ecological information

· Aquatic toxicity:

1330-20-7 xylene

| EC50  | 2.2 mg/l (algae) (72h) |
| LC50 48h | 1 mg/l (daphnia) |
| LC50 (96h) | 2.6 mg/l (Fish) |

110-19-0 isobutyl acetate

| EC50  | 370 mg/l (algae) (72h) |
| LC50 (96h) | 25 mg/l (daphnia) |
| LC50 (96h) | 17 mg/l (Fish) |

100-41-4 ethylbenzene

| EC50  | 438 mg/l (algae) (72h) |
| LC50 (96h) | 1.8 mg/l (daphnia) (48 h) |
| LC50 (96h) | 12.1 mg/l (Fish) |

141-78-6 ethyl acetate

| EC50  | 165 mg/l (daphnia) (48 h) |
| LC50 (96h) | 230 mg/l (Fish) |

123-86-4 n-butyl acetate

| EC50  | 397 mg/l (algae) (72 h) |
| LC50 (96h) | 44 mg/l (daphnia) (48 h) |
| LC50 (96h) | 18 mg/l (Fish) |

108-88-3 toluene

| EC50  | 134 mg/l (algae) (96 h) |
| LC50 (96h) | 3.78 mg/l (daphnia) (48 h) |
| LC50 (96h) | 5.5 mg/l (Fish) |

108-10-1 4-methylpentan-2-one

| EC50  | 201 mg/l (daphnia) (48 h) |

(Contd. on page 12)
49.0.14

<table>
<thead>
<tr>
<th>Compound</th>
<th>LC50 (96h)</th>
<th>EC50 (72h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-94-1 cyclohexanone</td>
<td>180 mg/l (Fish)</td>
<td>101 mg/l (algae)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>101 mg/l (daphnia)</td>
</tr>
<tr>
<td>64-17-5 ethanol</td>
<td>527 mg/l (Fish)</td>
<td>5.012 mg/l (daphnia)</td>
</tr>
</tbody>
</table>

- **Persistence and degradability**
  Data refers to the substance Toluene CAS No. 108-88-3
  Readily biodegradable (according to OECD criteria and/or EU RAR)

- **Substances Easily biodegradable**
  - 1330-20-7 xylene
  - 110-19-0 isobutyl acetate
  - 100-41-4 ethylbenzene
  - 141-78-6 ethyl acetate
  - 123-86-4 n-butyl acetate
  - 108-88-3 toluene
  - 108-10-1 4-methylpentan-2-one
  - 64-17-5 ethanol

- **Behavior in environmental systems:**
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.

- **Additional ecological information:**
  - General notes:
    - Water hazard class 2 (Self-assessment): hazardous for water
    - Do not allow product to reach ground water, water course or sewage system.
    - Danger to drinking water if even small quantities leak into the ground.
  - Other adverse effects: No further relevant information available.

---

### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:**
    - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
    - Hand over to hazardous waste disposers.
    - Dispose of contents and container in accordance with local state and federal regulations.

- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

---

### 14 Transport information

- **UN-Number**
  - DOT: NA1263
  - IMDG, IATA: UN1263
### 49.0.14

**UN proper shipping name**
- DOT: Paint
- IMDG, IATA: PAINT

**Transport hazard class(es)**
- DOT
  - Class: 3
  - Label: 3 Flammable liquids
- IMDG, IATA
  - Class: 3
  - Label: 3 Flammable liquids

**Packing group**
- DOT, IMDG, IATA: III

**Environmental hazards:**
- Marine pollutant: No

**Special precautions for user**
- Warning: Flammable liquids
  - Danger code (Kemler): -
  - EMS Number: F-E,S-E
  - Stowage Category: A

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
- Not applicable.

**Transport/Additional information:**
- IMDG
  - Limited quantities (LQ): 5L
  - Exempted quantities (EQ): Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml

**UN "Model Regulation":**
- UN 1263 PAINT, 3, III

### 15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Requirements of Federal Register

(Contd. on page 14)
### SARA

#### Section 355 (extremely hazardous substances):
None of the ingredients is listed.

#### Section 313 (Specific toxic chemical listings):

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>15-19.99%</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>2.5-4.99%</td>
</tr>
<tr>
<td>Butanone</td>
<td>0.5-1%</td>
</tr>
<tr>
<td>Toluene</td>
<td>0.5-1%</td>
</tr>
<tr>
<td>4-Methylpentan-2-one</td>
<td>≥0.1-&lt;0.5%</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>&lt;0.5%</td>
</tr>
<tr>
<td>Butanone</td>
<td>&lt;0.01%</td>
</tr>
</tbody>
</table>

### TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.

### Hazardous Air Pollutants

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td></td>
</tr>
<tr>
<td>4-Methylpentan-2-one</td>
<td></td>
</tr>
</tbody>
</table>

### Proposition 65

#### Chemicals known to cause cancer:
- Titanium dioxide only in bound form
- Ethylbenzene
- 4-Methylpentan-2-one

#### Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

#### Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

#### Chemicals known to cause developmental toxicity:
- Toluene
- 4-Methylpentan-2-one
- Ethanol

### Carcinogenic categories

#### EPA (Environmental Protection Agency)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>I 15-19.99%</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>D 2.5-4.99%</td>
</tr>
<tr>
<td>Butanone</td>
<td>I 0.5-1%</td>
</tr>
<tr>
<td>Toluene</td>
<td>II 0.5-1%</td>
</tr>
<tr>
<td>4-Methylpentan-2-one</td>
<td>I ≥0.1-&lt;0.5%</td>
</tr>
<tr>
<td>Butanone</td>
<td>I &lt;0.01%</td>
</tr>
</tbody>
</table>

#### TLV (Threshold Limit Value established by ACGIH)

<table>
<thead>
<tr>
<th>Substance</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>A4</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>A4</td>
</tr>
<tr>
<td>4-Methylpentan-2-one</td>
<td>A3</td>
</tr>
</tbody>
</table>
Safety Data Sheet
acc. to OSHA HCS

Product number PL50
Trade name: WHITE POLYURETHANE SATIN FINISH

(Contd. of page 14)

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS Number</th>
<th>Registry Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>toluene</td>
<td>108-88-3</td>
<td>A4</td>
</tr>
<tr>
<td>cyclohexanone</td>
<td>108-94-1</td>
<td>A3</td>
</tr>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>A4</td>
</tr>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>A3</td>
</tr>
</tbody>
</table>

· NIOSH-Ca (National Institute for Occupational Safety and Health)

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS Number</th>
<th>Registry Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>25-29.99%</td>
</tr>
</tbody>
</table>

· National regulations:
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

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

· Department issuing SDS: IVM Chemicals Srl
· Contact: See emergency phone
· Date of preparation / last revision: 07/19/2019 / 89
· Abbreviations and acronyms:
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  ACGIH: American Conference of Governmental Industrial Hygienists
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  NIOSH: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)
  VOC: Volatile Organic Compounds (USA, EU)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  NIOSH: National Institute for Occupational Safety
  OSHA: Occupational Safety & Health
  TLV: Threshold Limit Value
  PEL: Permissible Exposure Limit
  REL: Recommended Exposure Limit
  BEI: Biological Exposure Limit
  Flam. Liq. 2: Flammable liquids – Category 2
  Flam. Liq. 3: Flammable liquids – Category 3
  Acute Tox. 4: Acute toxicity – Category 4
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  Carc. 2: Carcinogenicity – Category 2
  Repr. 2: Reproductive toxicity – Category 2
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
  Asp. Tox. 1: Aspiration hazard – Category 1
  Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· Sources
  REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments
  Agency ECHA web site
  INRS Fiche Toxicologique
  IARC International agency for research on cancer
· * Data compared to the previous version altered.