1 Identification

· Product identifier
  · Trade name: POLYFLEX 56 CATALYST
  · Article number: WP56A.0

· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier: Wasser Corporation
    4118 B PL NW, Suite B
    Auburn, WA 98001, US
    Phone 253-850-2967

· Information department: Product safety department

· Emergency telephone number:
  EMERGENCY PHONE NUMBERS:
  USA and Canada: 1-800 424-9300
  International: 1-703 527-3887

2 Hazard(s) identification

· Classification of the substance or mixture
  Flam. Liq. 3 H226 Flammable liquid and vapor.
  Acute Tox. 4 H332 Harmful if inhaled.
  Skin Irrit. 2 H315 Causes skin irritation.
  Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  Skin Sens. 1 H317 May cause an allergic skin reaction.
  Muta. 1B H340 May cause genetic defects.
  Carc. 1B H350 May cause cancer.

· Label elements
  · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms
  GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labeling:
  Homopolymer of IPDI
  Solvent naphtha (petroleum), light arom.
  isophorone di-isocyanate
  xylene

· Hazard statements
  H226 Flammable liquid and vapor.
  H332 Harmful if inhaled.
  H315 Causes skin irritation.
  H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  H317 May cause an allergic skin reaction.
  H340 May cause genetic defects.
  H350 May cause cancer.

· Precautionary statements
  Keep out of reach from children.
Trade name: POLYFLEX 56 CATALYST

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P284 [In case of inadequate ventilation] wear respiratory protection.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P280 Wear protective gloves / eye protection / face protection.
P240 Ground/bond container and receiving equipment.
P233 Keep container tightly closed.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P321 Specific treatment (see on this label).
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P363 Wash contaminated clothing before reuse.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:
- NFPA ratings (scale 0 - 4)
  - Health = 3
  - Fire = 3
  - Reactivity = 0

- HMIS-ratings (scale 0 - 4)
  - Health = *3
  - Fire = 3
  - Reactivity = 0

Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

3 Composition/information on ingredients
- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.
- Dangerous components:
  - 53880-03-0 Homopolymer of IPDI 10-30%
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.
  - **After inhalation:**
    Supply fresh air and be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
  - **After skin contact:**
    Immediately wash with water and soap and rinse thoroughly.
  - **After eye contact:**
    Rinse opened eye for several minutes under running water.
  - **After swallowing:**
    If symptoms persist consult doctor.
  - **Information for doctor:**
    **Most important symptoms and effects, both acute and delayed** 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:**
    CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - **For safety reasons unsuitable extinguishing agents:**
    Water with full jet
  - **Special hazards arising from the substance or mixture**
    No further relevant information available.
  - **Advice for firefighters**
    **Protective equipment:**
    Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  Wear protective equipment. Keep unprotected persons away.
- **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 item 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.
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.
  - 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: No special requirements.
    - Information about storage in one common storage facility: Not required.
    - Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

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>Chemical</th>
<th>PEL Long-term value</th>
<th>REL Long-term value</th>
<th>TLV Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7 xylene</td>
<td>435 mg/m³, 100 ppm</td>
<td>655 mg/m³, 150 ppm</td>
<td>651 mg/m³, 150 ppm</td>
</tr>
<tr>
<td>110-43-0 methyl amyl ketone</td>
<td>465 mg/m³, 100 ppm</td>
<td>465 mg/m³, 100 ppm</td>
<td>233 mg/m³, 50 ppm</td>
</tr>
<tr>
<td>95-63-6 1,2,4-trimethylbenzene</td>
<td>125 mg/m³, 25 ppm</td>
<td>123 mg/m³, 25 ppm</td>
<td></td>
</tr>
<tr>
<td>4098-71-9 isophorone di-isocyanate</td>
<td>0.18 mg/m³, 0.02 ppm</td>
<td>0.045 mg/m³, 0.005 ppm</td>
<td>0.045 mg/m³, 0.005 ppm</td>
</tr>
</tbody>
</table>
Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>BEI</th>
<th>Medium</th>
<th>Time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7 xylene</td>
<td>1.5 g/g creatinine</td>
<td>urine</td>
<td>end of shift</td>
<td>Methylhippuric acids</td>
</tr>
</tbody>
</table>

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 skin.
- Avoid contact with the eyes and skin.

Breathing equipment:
- During mixing, handling and application: Splash goggles. Full protective clothing. Gloves (impervious). Wear suitable respiratory equipment. When air concentrations are not known (or above the TLV), an air-supplied respirator is required. Refer to OSHA Respiratory Protection Standard (29 CFR 1910.134). In presence of air movement, air-purifying (cartridge type) respirators are not the best protection but can be used, if you replaced them frequently. Change cartridges after 8h max or less due to their low warning properties. When in a confined space wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

Protection of hands:
- Protective gloves
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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 break through 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Information on basic physical and chemical properties</td>
<td></td>
</tr>
<tr>
<td>· General Information</td>
<td></td>
</tr>
<tr>
<td>· Appearance:</td>
<td></td>
</tr>
<tr>
<td>· Form</td>
<td>Fluid</td>
</tr>
<tr>
<td>· Color</td>
<td>Transparent</td>
</tr>
<tr>
<td>· Odor</td>
<td>Aromatic</td>
</tr>
<tr>
<td>· Odor threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· pH-value</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Change in condition</td>
<td></td>
</tr>
<tr>
<td>· Melting point/Melting range</td>
<td>Undetermined.</td>
</tr>
<tr>
<td>· Boiling point/Boiling range</td>
<td>137 °C (279 °F)</td>
</tr>
<tr>
<td>· Flash point</td>
<td>30 °C (86 °F)</td>
</tr>
<tr>
<td>· Flammability (solid, gaseous):</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>· Ignition temperature</td>
<td>450 °C (842 °F)</td>
</tr>
<tr>
<td>· Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Auto igniting</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>· Danger of explosion</td>
<td>Product is not explosive.</td>
</tr>
<tr>
<td></td>
<td>However, formation of explosive air/vapor mixtures are possible.</td>
</tr>
<tr>
<td>· Explosion limits:</td>
<td></td>
</tr>
<tr>
<td>· Lower</td>
<td>1.1 Vol %</td>
</tr>
<tr>
<td>· Upper</td>
<td>7.0 Vol %</td>
</tr>
<tr>
<td>· Vapor pressure at 20 °C (68 °F):</td>
<td>6.7 hPa (5 mm Hg)</td>
</tr>
<tr>
<td>· Density at 20 °C (68 °F):</td>
<td>1.03 g/cm³ (8.595 lbs/gal)</td>
</tr>
<tr>
<td>· Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Vapor density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Solubility in / Miscibility with Water</td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td>· Partition coefficient (n-octanol/water):</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Viscosity:</td>
<td></td>
</tr>
<tr>
<td>· Dynamic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Kinematic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· VOC content</td>
<td>33.3 %</td>
</tr>
<tr>
<td></td>
<td>342.6 g/l / 2.86 lb/gl</td>
</tr>
<tr>
<td>· Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

### 10 Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Reactivity</td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td>· Chemical stability</td>
<td></td>
</tr>
<tr>
<td>· Thermal decomposition / conditions to be avoided:</td>
<td>No decomposition if used according to specifications.</td>
</tr>
<tr>
<td>· Possibility of hazardous reactions</td>
<td>No dangerous reactions known.</td>
</tr>
<tr>
<td>· Conditions to avoid</td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td>· Incompatible materials</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>
42.2.28

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects
  · Acute toxicity:
    · LD/LC50 values that are relevant for classification:
      | 1330-20-7 xylene       |
      | Oral  LD50 4300 mg/kg (rat) |
      | Dermal LD50 2000 mg/kg (rabbit) |
      | 64742-95-6 Solvent naphtha (petroleum), light arom. |
      | Oral LD50 >6800 mg/kg (rat) |
      | Dermal LD50 >3400 mg/kg (rabbit) |
      | Inhalative LC50/4 h >10.2 mg/l (rabbit) |
      | 95-63-6 1,2,4-trimethylbenzene |
      | Oral LD50 3000 mg/kg (rat) |
    · Primary irritant effect:
      · on the skin: Irritant to skin and mucous membranes.
      · on the eye: No irritating effect.
    · Sensitization:
      Sensitization possible through inhalation.
      Sensitization possible through skin contact.
    · Additional toxicological information:
      The product shows the following dangers according to internally approved calculation methods for preparations:
      Harmful
      Irritant
      The product can cause inheritable damage.

· Carcinogenic categories
  · IARC (International Agency for Research on Cancer)
    | 1330-20-7 xylene | 3 |
  · 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

· Toxicity
  · Aquatic toxicity: No further relevant information available.
  · Persistence and degradability: No further relevant information available.
  · 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.
42.2.28 Danger to drinking water if even small quantities leak into the ground.

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- 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.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - DOT, ADR, IMDG, IATA UN1263
- UN proper shipping name
  - DOT Paint related material
  - ADR 1263 Paint related material
  - IMDG, IATA PAINT RELATED MATERIAL
- Transport hazard class(es)
  - DOT
    - Class 3 Flammable liquids
    - Label 3
  - ADR, IMDG, IATA
    - Class 3 Flammable liquids
    - Label 3
- Packing group
  - DOT, ADR, IMDG, IATA III
- Environmental hazards: Not applicable.
- Special precautions for user Warning: Flammable liquids
  - Danger code (Kemler): 30
  - EMS Number: F-E,S,E
  - Stowage Category A
### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

  - **Section 355 (extremely hazardous substances):**
    - 4098-71-9 isophorone di-isocyanate

  - **Section 313 (Specific toxic chemical listings):**
    - 1330-20-7 xylene
    - 95-63-6 1,2,4-trimethylbenzene
    - 4098-71-9 isophorone di-isocyanate

  - **TSCA (Toxic Substances Control Act):**
    All ingredients are listed.

  - **Proposition 65**

    - **Chemicals known to cause cancer:**
      None of the ingredients is listed.

    - **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:**
      None of the ingredients is listed.

  - **Carcinogenic categories**

    - **EPA (Environmental Protection Agency)**
      - 1330-20-7 xylene

    - **TLV (Threshold Limit Value established by ACGIH)**
      - xylene
Trade name: POLYFLEX 56 CATALYST

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  None of the ingredients is listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**

  ![GHS02](image) ![GHS07](image) ![GHS08](image)

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  - Homopolymer of IPDI
  - Solvent naphtha (petroleum), light arom.
  - isophorone di-isocyanate
  - xylene

- **Hazard statements**
  - H226 Flammable liquid and vapor.
  - H332 Harmful if inhaled.
  - H315 Causes skin irritation.
  - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - H317 May cause an allergic skin reaction.
  - H340 May cause genetic defects.
  - H350 May cause cancer.

- **Precautionary statements**
  - P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  - P284 [In case of inadequate ventilation] wear respiratory protection.
  - P261 Avoid breathing dust/fume/gas/mist/vapors/spray
  - P280 Wear protective gloves/eye protection/face protection.
  - P240 Ground/bond container and receiving equipment.
  - P233 Keep container tightly closed.
  - P242 Use only non-sparking tools.
  - P243 Take precautionary measures against static discharge.
  - P264 Wash thoroughly after handling.
  - P271 Use only outdoors or in a well-ventilated area.
  - P272 Contaminated work clothing must not be allowed out of the workplace.
  - P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.
  - P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P321 Specific treatment (see on this label).
  - P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
  - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - P312 Call a POISON CENTER/doctor if you feel unwell.
  - P363 Wash contaminated clothing before reuse.
  - P308+P313 IF exposed or concerned: Get medical advice/attention.
  - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
  - P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
  - P362+P364 Take off contaminated clothing and wash it before reuse.
  - P405 Store locked up.
  - P403+P235 Store in a well-ventilated place. Keep cool.

(Contd. on page 11)
Trade name: POLYFLEX 56 CATALYST

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

· Additional classification according to Decree on Hazardous Materials:
  Carcinogenic hazardous material group III (dangerous).

· Information about limitation of use:
  Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· 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: Product safety department
· Contact: HS REG.DEPART.REG.SS
· Date of preparation / last revision 11/01/2016 / -
· Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  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)
  HMIS: Hazardous Materials Identification System (USA)
  VOC: Volatile Organic Compounds (USA, EU)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  NIOSH: National Institute for Occupational Safety
  OSHA: Occupational Safety & Health
  TLV: Threshold Limit Value
  REL: Recommended Exposure Limit
  BEI: Biological Exposure Limit
  Flam. Liq. 3: Flammable liquids – Category 3
  Acute Tox. 4: Acute toxicity – Category 4
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Resp. Sens. 1: Respiratory sensitisation – Category 1
  Skin Sens. 1: Skin sensitisation – Category 1
  Muta. 1B: Germ cell mutagenicity – Category 1B
  Carc. 1B: Carcinogenicity – Category 1B
1 Identification

- **Product identifier**
  
  - **Trade name**: POLYFLEX BASE RESIN WHITE
  
  - **Article number**: WP56B.7

- **Details of the supplier of the safety data sheet**
  
  - **Manufacturer/Supplier**: Wasser Corporation
    4118 B PL NW, Suite B
    Auburn, WA 98001, US
    Phone 253-850-2967

- **Information department**: Product safety department

- **Emergency telephone number**:
  
  EMERGENCY PHONE NUMBERS:
  USA and Canada: 1-800 424-9300
  International: 1-703 527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**
  
  Flam. Liq. 3 H226 Flammable liquid and vapor.
  Skin Irrit. 2 H315 Causes skin irritation.
  Skin Sens. 1 H317 May cause an allergic skin reaction.
  Muta. 1B H340 May cause genetic defects.
  Carc. 1B H350 May cause cancer.

- **Label elements**

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

  ![GHS02](image1)
  ![GHS07](image2)
  ![GHS08](image3)

- **Signal word**: Danger

- **Hazard-determining components of labeling**:
  
  Solvent naphtha (petroleum), light arom.
  tetraethyl-N,N'-(methylene)bis DL-aspartate
  titanium dioxide

- **Hazard statements**
  
  H226 Flammable liquid and vapor.
  H315 Causes skin irritation.
  H317 May cause an allergic skin reaction.
  H340 May cause genetic defects.
  H350 May cause cancer.

- **Precautionary statements**
  
  Keep out of reach from children.
  P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  P261 Avoid breathing dust/fume/gas/mist/vapors/spray
  P280 Wear protective gloves / eye protection / face protection.
  P240 Ground/bond container and receiving equipment.

(Contd. on page 2)
Trade name: POLYFLEX BASE RESIN WHITE

4.2.28

P233 Keep container tightly closed.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P321 Specific treatment (see on this label).
P363 Wash contaminated clothing before reuse.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P403+P235 Store in a well-ventilated place. Keep cool.
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

- Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:
  - 13463-67-7 titanium dioxide 10-30%\%\%
  - 1330-20-7 xylene 10-30%\%\%
  - 64742-95-6 Solvent naphtha (petroleum), light arom. 5-10%\%
  - 136210-30-5 tetraethyl-N,N'-(methylene cyclohexane-4,1-diyl)bis-DL-aspartate 1-5%\%

4 First-aid measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
· After inhalation:
  Supply fresh air and to be sure call for a doctor.
  In case of unconsciousness place patient stably in side position for transportation.
· After skin contact: Immediately wash with water and soap and rinse thoroughly.
· After eye contact: Rinse opened eye for several minutes under running water.
· After swallowing: If symptoms persist consult doctor.
· Information for doctor:
  · Most important symptoms and effects, both acute and delayed 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:
    CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  · For safety reasons unsuitable extinguishing agents: Water with full jet
  · Special hazards arising from the substance or mixture No further relevant information available.
· Advice for firefighters
  · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
· 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 item 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.

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.
  · 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; No special requirements.
    · Information about storage in one common storage facility: Not required.
    · Further information about storage conditions: Keep receptacle tightly sealed.
Trade name: POLYFLEX BASE RESIN WHITE

- **Specific end use(s)**: No further relevant information available.

### 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 constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
  At this time, the other constituents have no known exposure limits.

<table>
<thead>
<tr>
<th>1330-20-7 xylene</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEL</strong></td>
</tr>
<tr>
<td><strong>REL</strong></td>
</tr>
<tr>
<td><strong>Long-term value</strong>: 435 mg/m³, 100 ppm</td>
</tr>
<tr>
<td><strong>TLV</strong></td>
</tr>
<tr>
<td><strong>Long-term value</strong>: 434 mg/m³, 100 ppm</td>
</tr>
<tr>
<td><strong>BEI</strong></td>
</tr>
</tbody>
</table>

- **Ingredients with biological limit values**:

<table>
<thead>
<tr>
<th>1330-20-7 xylene</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEI</strong></td>
</tr>
<tr>
<td><strong>Medium</strong>: urine</td>
</tr>
<tr>
<td><strong>Time</strong>: end of shift</td>
</tr>
<tr>
<td><strong>Parameter</strong>: Methylhippuric acids</td>
</tr>
</tbody>
</table>

- **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 skin.
  Avoid contact with the eyes and skin.

- **Breathing equipment**:
  During mixing, handling and application: Splash goggles. Full protective clothing. Gloves (impervious). Wear suitable respiratory equipment. When air concentrations are not known (or above the TLV), an air-supplied respirator is required. Refer to OSHA Respiratory Protection Standard (29 CFR 1910.134). In presence of air movement, air-purifying (cartridge type) respirators are not the best protection but can be used, if you replaced them frequently. Change cartridges after 8h max or less due to their low warning properties. When in a confined space wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

- **Protection of hands**:

  **Protective gloves**

  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
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 break through 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Fluid</td>
</tr>
<tr>
<td><strong>Form</strong></td>
<td>Fluid</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>According to product specification</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Characteristic</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>pH-value</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Melting point/Melting range</strong></td>
<td>Undetermined</td>
</tr>
<tr>
<td><strong>Boiling point/Boiling range</strong></td>
<td>137 °C (279 °F)</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>30 °C (86 °F)</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous)</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Ignition temperature</strong></td>
<td>450 °C (842 °F)</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Auto igniting</strong></td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Danger of explosion</strong></td>
<td>Product is not explosive. However, formation of explosive air/vapor mixtures are possible.</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Lower</strong></td>
<td>1.1 Vol %</td>
</tr>
<tr>
<td><strong>Upper</strong></td>
<td>7.0 Vol %</td>
</tr>
<tr>
<td><strong>Vapor pressure at 20 °C (68 °F):</strong></td>
<td>6.7 hPa (5 mm Hg)</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with Water</strong></td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong></td>
<td>Not determined.</td>
</tr>
</tbody>
</table>
Trade name: POLYFLEX BASE RESIN WHITE

- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
  - VOC content: 21.6 %
    216.4 g/l / 1.81 lb/gl
- Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability:
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions: No dangerous reactions known.
  - Conditions to avoid: No further relevant information available.
  - Incompatible materials: No further relevant information available.
  - Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    1330-20-7 xylene
    Oral LD50 4300 mg/kg (rat)
    Dermal LD50 2000 mg/kg (rabbit)
    64742-95-6 Solvent naphtha (petroleum), light arom.
    Oral LD50 >6800 mg/kg (rat)
    Dermal LD50 >3400 mg/kg (rab)
    Inhalative LC50/4 h >10.2 mg/l (rat)

- Primary irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: No irritating effect.

- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:
  The product shows the following dangers according to internally approved calculation methods for preparations:
  Irritant
  The product can cause inheritable damage.

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    13463-67-7 titanium dioxide 2B
    1330-20-7 xylene 3
    14807-96-6 Talc (Mg3H2(SiO3)4) 3
    7631-86-9 silicon dioxide, chemically prepared 3
    14808-60-7 Quartz (SiO2) 1
    100-41-4 ethylbenzene 2B
    111-76-2 2-butoxyethanol 3

(Contd. on page 7)
12 Ecological information

- **Toxicity**
  - **Aquatic toxicity**: No further relevant information available.
  - **Persistence and degradability**: No further relevant information available.

- **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.
  - **Results of PBT and vPvB assessment**
    - **PBT**: Not applicable.
    - **vPvB**: Not applicable.
  - **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.

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

14 Transport information

- **UN-Number**
  - DOT, ADR, IMDG, IATA: UN1263
- **UN proper shipping name**
  - DOT: Paint
  - ADR: 1263 Paint
  - IMDG, IATA: PAINT
- **Transport hazard class(es)**
  - **DOT**
    - Class: 3 Flammable liquids
Trade name: POLYFLEX BASE RESIN WHITE

| · Label | 3 |
| · ADR, IMDG, IATA | |
| | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · Packing group | III |
| · DOT, ADR, IMDG, IATA | |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Warning: Flammable liquids |
| · Danger code (Kemler): | 30 |
| · 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: | |
| · DOT | |
| · Quantity limitations | On passenger aircraft/rail: 60 L |
| | On cargo aircraft only: 220 L |
| · ADR | |
| · Excepted quantities (EQ) | Code: E1 |
| | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 1000 ml |
| · IMDG | |
| · Limited quantities (LQ) | 5L |
| · Excepted 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 | Sara |
| · Section 355 (extremely hazardous substances): | |
| | None of the ingredients is listed. |
| · Section 313 (Specific toxic chemical listings): | |
| 1330-20-7 | xyene |
| 1344-28-1 | aluminium oxide |
| 100-41-4 | ethylbenzene |
| 111-76-2 | 2-butoxyethanol |

(Contd. on page 9)
Trade name: POLYFLEX BASE RESIN WHITE

- TSCA (Toxic Substances Control Act):
  All ingredients are listed.

- Proposition 65

- Chemicals known to cause cancer:
  13463-67-7 titanium dioxide
  14808-60-7 Quartz (SiO2)
  100-41-4 ethylbenzene

- 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:
  None of the ingredients is listed.

- Carcinogenic categories

- EPA (Environmental Protection Agency)
  1330-20-7 xylene I
  100-41-4 ethylbenzene D
  111-76-2 2-butoxyethanol NL

- TLV (Threshold Limit Value established by ACGIH)
  titanium dioxide A4
  xylene A4
  Talc (Mg3H2(SiO3)4) A4
  aluminium oxide A4
  zirconium dioxide A4

- NIOSH-Ca (National Institute for Occupational Safety and Health)
  13463-67-7 titanium dioxide
  14808-60-7 Quartz (SiO2)

- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms
  GHS02 GHS07 GHS08

- Signal word Danger

- Hazard-determining components of labeling:
  Solvent naphtha (petroleum), light arom.
  tetraethyl-N,N'-(methylene cyclohexane-4,1-diyl)bis-DL-aspartate
  titanium dioxide

- Hazard statements
  H226 Flammable liquid and vapor.
  H315 Causes skin irritation.
  H317 May cause an allergic skin reaction.
  H340 May cause genetic defects.
  H350 May cause cancer.
Trade name: POLYFLEX BASE RESIN WHITE

- Precautionary statements
  P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P280 Wear protective gloves / eye protection / face protection.
P240 Ground/bond container and receiving equipment.
P233 Keep container tightly closed.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P321 Specific treatment (see on this label).
P363 Wash contaminated clothing before reuse.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- National regulations:
- Additional classification according to Decree on Hazardous Materials:
  Carcinogenic hazardous material group III (dangerous).
- Information about limitation of use:
  Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
- 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: Product safety department
- Contact: HS REG.DEPART.REG.SS
- Date of preparation / last revision 11/02/2016 / -
- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  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)
  NFPA: 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

(Contd. on page 11)
Trade name: POLYFLEX BASE RESIN WHITE

PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
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. 3: Flammable liquids – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 1B: Germ cell mutagenicity – Category 1B
Carc. 1B: Carcinogenicity – Category 1B