1 Identification

· Product identifier

· Trade name: POLYFLEX 59A CATALYST

· Article number: WP59A.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.
  Eye Irrit. 2A  H319  Causes serious eye 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.
  Carc. 1B  H350  May cause cancer.
  STOT SE 3  H335  May cause respiratory irritation.
  STOT RE 2  H373  May cause damage to organs through prolonged or repeated exposure.

· 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:
  4,4'-methylene diisocyanate
  diphenylmethanediisocyanate, isomers and homologues
  o-(p-isocyanatobenzyl)phenyl isocyanate
  4-methyl-m-phenylene diisocyanate
  2-methyl-m-phenylene diisocyanate

· Hazard statements
  H226 Flammable liquid and vapor.
  H332 Harmful if inhaled.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Trade name: POLYFLEX 59A CATALYST

H317 May cause an allergic skin reaction.
H350 May cause cancer.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements
Keep out of reach from children.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
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.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a poison center/doctor if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P321 Specific treatment (see on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
P362+P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
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 = 2
- Reactivity = 0

HMIS-ratings (scale 0 - 4)

- HEALTH: Health = *2
- FIRE: Fire = 2
- REACTIVITY: Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

(Contd. of page 1)
Trade name: POLYFLEX 59A CATALYST

· vPvB: Not applicable.

3 Composition/information on ingredients

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

<table>
<thead>
<tr>
<th>Chemicals</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>101-68-8 4,4'-methylenebisphenyl diisocyanate</td>
<td>10-30%</td>
</tr>
<tr>
<td>9016-87-9 diphenylmethanediisocyanate, isomers and homologues</td>
<td>10-30%</td>
</tr>
<tr>
<td>64742-95-6 Solvent naphtha (petroleum), light arom.</td>
<td>5-10%</td>
</tr>
<tr>
<td>10572-54-1 o-(p-isocyanato)benzyl phenyl isocyanate</td>
<td>1-5%</td>
</tr>
<tr>
<td>584-84-9 4-methyl-m-phenylene diisocyanate</td>
<td>0.1-1%</td>
</tr>
<tr>
<td>91-08-7 2-methyl-m-phenylene diisocyanate</td>
<td>0.1-1%</td>
</tr>
</tbody>
</table>

4 First-aid measures

· Description of first aid measures
· General information:
   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 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. If symptoms persist, consult a doctor.
· 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.

(Contd. on page 4)
7 Handling and storage

- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- 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.

### 101-68-8 4,4’-methylene diphenyl disocyanate

<table>
<thead>
<tr>
<th></th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ceiling limit value: 0.2 mg/m³, 0.02 ppm</td>
<td>Long-term value: 0.05 mg/m³, 0.005 ppm</td>
<td>Long-term value: 0.051 mg/m³, 0.005 ppm</td>
</tr>
<tr>
<td>Ceiling limit value: 0.2* mg/m³, 0.02* ppm *10-min</td>
<td>Ceiling limit value: 0.2 mg/m³, 0.02 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 584-84-9 4-methyl-m-phenylene diisocyanate

<table>
<thead>
<tr>
<th></th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ceiling limit value: 0.14 mg/m³, 0.02 ppm</td>
<td>See Pocket Guide App. A</td>
<td>See Pocket Guide App. A</td>
</tr>
<tr>
<td>Short-term value: 0.035* mg/m³, 0.005* ppm</td>
<td>Long-term value: 0.007* mg/m³, 0.001* ppm</td>
<td>Long-term value: 0.007* mg/m³, 0.001* ppm</td>
<td></td>
</tr>
<tr>
<td>*inh. fraction + vapour; Skin; DSEN, RSEN, BEI</td>
<td>*inh. fraction + vapour; Skin; DSEN, RSEN, BEI</td>
<td>*inh. fraction + vapour; Skin; DSEN, RSEN, BEI</td>
<td></td>
</tr>
</tbody>
</table>

### 91-08-7 2-methyl-m-phenylene diisocyanate

<table>
<thead>
<tr>
<th></th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short-term value: 0.035* mg/m³, 0.005* ppm</td>
<td>Long-term value: 0.007* mg/m³, 0.001* ppm</td>
</tr>
<tr>
<td>*inh. fraction + vapour; Skin; DSEN, RSEN, BEI</td>
<td>*inh. fraction + vapour; Skin; DSEN, RSEN, BEI</td>
</tr>
</tbody>
</table>

- Additional information: The lists that were valid during the creation were used as basis.
Safety Data Sheet
acc. to OSHA HCS

Trade name: POLYFLEX 59A CATALYST

(Contd. of page 4)

- 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.
  - Breathing equipment:
    During mixing, handling and application: Splash goggles. Full protective clothing. Gloves (impervious). 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 cannot 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:
      - Form: Fluid
      - Color: Amber colored
      - Odor: Light
      - Odor threshold: Not determined.
    - pH-value: Not determined.
  - Change in condition
    - Melting point/Melting range: Undetermined.

(Contd. on page 6)
Trade name: POLYFLEX 59A CATALYST

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point/Boiling range</td>
<td>162 °C (323.6 °F)</td>
</tr>
<tr>
<td>· Flash point</td>
<td>45 °C (113 °F)</td>
</tr>
<tr>
<td>· Flammability (solid, gaseous)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>· Ignition temperature</td>
<td>400 °C (752 °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. However, formation of explosive air/vapor mixtures are possible.</td>
</tr>
<tr>
<td>· Explosion limits</td>
<td></td>
</tr>
<tr>
<td>· Lower</td>
<td>0.4 Vol %</td>
</tr>
<tr>
<td>· Upper</td>
<td>0.0 Vol %</td>
</tr>
<tr>
<td>· Vapor pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Density at 20 °C (68 °F)</td>
<td>1.09 g/cm³ (9.09605 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>· Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

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:
  101-68-8 4,4'-methylene diphenyl diisocyanate
  Oral    LD50    2,200 mg/kg (mouse)
  64742-95-6 Solvent naphtha (petroleum), light arom.
  Oral    LD50    >6,800 mg/kg (rat)
Dermal LD50 3,400 mg/kg (rab)
Inhalative LC50/4 h >10.2 mg/l (rat)

584-84-9 4-methyl-m-phenylene diisocyanate
Oral LD50 5,800 mg/kg (rat)

- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** 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

- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    - 101-68-8 4,4'-methylene diphenyl diisocyanate 3
    - 9016-87-9 diphenyl methane diisocyanate, isomers and homologues 3
  - **NTP (National Toxicology Program)**
    - 584-84-9 4-methyl-m-phenylene diisocyanate R
    - 91-08-7 2-methyl-m-phenylene diisocyanate R
  - **OSHA-Ca (Occupational Safety & Health Administration)**
    - None of the ingredients is listed.

### 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.

### Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
  Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
### 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

- **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
15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):
  584-84-9 4-methyl-m-phenylene diisocyanate
  91-08-7 2-methyl-m-phenylene diisocyanate

· Section 313 (Specific toxic chemical listings):
  101-68-8 4,4'':methylene diphenyl disocyanate
  9016-87-9 diphenylmethanediisocyanate, isomers and homologues
  584-84-9 4-methyl-m-phenylene diisocyanate
  91-08-7 2-methyl-m-phenylene diisocyanate

· 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)
  101-68-8 4,4':methylene diphenyl disocyanate D, CBD
  9016-87-9 diphenylmethanediisocyanate, isomers and homologues CBD

· TLV (Threshold Limit Value established by ACGIH)
  4-methyl-m-phenylene diisocyanate (A4)
  2-methyl-m-phenylene diisocyanate (A4)

· NIOSH-Ca (National Institute for Occupational Safety and Health)
  584-84-9 4-methyl-m-phenylene diisocyanate
  91-08-7 2-methyl-m-phenylene diisocyanate

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

(Contd. on page 8)
Trade name: POLYFLEX 59A CATALYST

· **Hazard pictograms**

![Pictograms](image)

- GHS02
- GHS07
- GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
  - 4,4'-methylene diphenyl disocyanate
  - diphenylmethanediisocyanate, isomers and homologues
  - o-(p-isocyanatobenzyl)phenyl isocyanate
  - 4-methyl-m-phenylene diisocyanate
  - 2-methyl-m-phenylene diisocyanate

· **Hazard statements**
  - H226 Flammable liquid and vapor.
  - H332 Harmful if inhaled.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - H317 May cause an allergic skin reaction.
  - H350 May cause cancer.
  - H335 May cause respiratory irritation.
  - H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**
  - P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.
  - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - P240 Ground/bond container and receiving equipment.
  - P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  - P242 Use only non-sparking tools.
  - P243 Take precautionary measures against static discharge.
  - P260 Do not breathe dust/fume/gas/mist/vapors/spray.
  - P264 Wash thoroughly after handling.
  - P271 Use only outdoors or in a well-ventilated area.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P308+P313 IF exposed or concerned: Get medical advice/attention.
  - P312 Call a poison center/doctor if you feel unwell.
  - P314 Get medical advice/attention if you feel unwell.
  - P321 Specific treatment (see on this label).
  - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
  - P337+P313 If eye irritation persists: Get medical advice/attention.
  - P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
  - P362+P364 Take off contaminated clothing and wash it before reuse.
  - P363 Wash contaminated clothing before reuse.
  - P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
  - P403+P233 Store in a well-ventilated place. Keep container tightly closed.
Trade name: POLYFLEX 59A CATALYST

P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
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 01/23/2018 / -
- 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
  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
  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
  Resp. Sens. 1: Respiratory sensitisation – Category 1
  Skin Sens. 1: Skin sensitisation – Category 1
  Carc. 1B: Carcinogenicity – Category 1B
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
1 Identification

· Product identifier
· Trade name: POLYFLEX 59B WHITE
· Article number: WP59B.7001
· 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.

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

GHS02 GHS07

· Signal word Warning
· Hazard statements
  H226 Flammable liquid and vapor.
  H315 Causes skin irritation.
· Precautionary statements
  Keep out of reach from children.
  P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  P233 Keep container rightly closed.
  P240 Ground/bond container and receiving equipment.
  P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  P242 Use only non-sparking tools.
  P243 Take precautionary measures against static discharge.
  P264 Wash thoroughly after handling.
  P280 Wear protective gloves/protective clothing/eye protection/face protection.
  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).
  P332+P313 If skin irritation occurs: Get medical advice/attention.
  P362+P364 Take off contaminated clothing and wash it before reuse.
  P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
  P403+P235 Store in a well-ventilated place. Keep cool.
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
Trade name: POLYFLEX 59B WHITE

- Classification system:
  - NFPA ratings (scale 0 - 4)
    - Health = 2
    - Fire = 3
    - Reactivity = 0
  - HMIS-ratings (scale 0 - 4)
    - HEALTH
      - 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:
  - 1330-20-7 xylene 10-30%
  - 64742-95-6 Solvent naphtha (petroleum), light arom. 10-30%

4 First-aid measures

- Description of first aid measures
  - 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.
  - 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).
  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

- Precautions for safe handling No special precautions are necessary if used correctly.

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

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

<table>
<thead>
<tr>
<th>1330-20-7 xylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL</td>
</tr>
<tr>
<td>REL</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>TLV</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

- Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>1330-20-7 xylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

- Additional information: The lists that were valid during the creation were used as basis.
Safety Data Sheet
acc. to OSHA HCS

Trade name: POLYFLEX 59B WHITE

(Contd. of page 3)

- 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.
  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).
  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

- Information on basic physical and chemical properties
- General Information
  - Appearance:
    - Form: Fluid
    - Color: White
  - Odor: Aromatic
  - Odor threshold: Not determined.
  - pH-value: Not determined.
- Change in condition
  Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 137 °C (278.6 °F)
- Flash point: 30 °C (86 °F)
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature: 450 °C (842 °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: 0.7 Vol %
  - Upper: 7.5 Vol %
- Vapor pressure at 20 °C (68 °F): 6.7 hPa (5 mm Hg)
- Density at 20 °C (68 °F): 1.24 g/cm³ (10.3478 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.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- 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:

<table>
<thead>
<tr>
<th>1330-20-7 xylene</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,300 mg/kg (rat)</td>
<td>2,000 mg/kg (rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 6)
Trade name: POLYFLEX 59B WHITE

**64742-95-6 Solvent naphtha (petroleum), light arom.**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>LC50/4 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>&gt;6,800 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>&gt;3,400 mg/kg (rab)</td>
<td></td>
</tr>
<tr>
<td>Inhalative</td>
<td>&gt;10.2 mg/l (rat)</td>
<td></td>
</tr>
</tbody>
</table>

- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** No irritating effect.
  - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**
    The product shows the following dangers according to internally approved calculation methods for preparations: Irritant.

- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    | Compound | Classification |
    |----------|----------------|
    | xylene   | 3              |
    | silicon dioxide, chemically prepared | 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.
      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 | UN1263 |
| · DOT, ADR, IMDG, IATA |

| · UN proper shipping name | Paint mixture |
| · DOT | 1263 Paint mixture |
| · ADR, IMDG, IATA | PAINT mixture |

### 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 |

### 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 |
Trade name: POLYFLEX 59B WHITE

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 xylene
      1344-28-1 aluminium oxide
  - 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 I
  - TLV (Threshold Limit Value established by ACGIH)
    xylene A4
    aluminium oxide A4
  - 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  GHS07

- Signal word
  Warning

- Hazard statements
  H226 Flammable liquid and vapor.
  H315 Causes skin irritation.

- Precautionary statements
  P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  P233 Keep container tightly closed.
Trade name: POLYFLEX 59B WHITE

P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 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 01/22/2018 / -
- 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
  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