1 Identification

- **Product identifier**
- **Trade name**: ZyBar
- **Other means of identification**: No other identifiers
- **Recommended use and restriction on use**
- **Recommended use**: Coating material
- **Restrictions on use**: No relevant information available.

**Details of the supplier of the Safety Data Sheet**

- **Manufacturer/Supplier**: Zycat, LLC
  15032 W. 117th Street
  Olathe, KS 66062
  (913)599-2600
- **Emergency telephone number**: ChemTel Inc.
  (800)255-3924 (North America)
  +1 (813)248-0585 (International)

2 Classification(s) identification

- **Classification of the substance or mixture**
  Flam. LIq. 2 H225 Highly flammable liquid and vapor.
  Acute Tox. 4 H302 Harmful if swallowed.
  Skin Irrit. 2 H315 Causes skin irritation.
  Eye Irrit. 2A H319 Causes serious eye irritation.
  Carc. 2 H351 Suspected of causing cancer.
  Repr. 2 H361 Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation.
  STOT SE 3 H336 May cause drowsiness or dizziness.
  STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.
  Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

**Label elements**

- **GHS label elements**
The label elements below are for use on industrial products in the workplace only. Labeling for consumer products in Canada must comply with the Consumer Chemicals and Containers Regulations (CCCR). Labeling for consumer products in the USA must comply with the Consumer Product Safety Commission (CPSC) requirements.

- **Hazard pictograms:**
  ![GHS02](image)
  ![GHS07](image)
  ![GHS08](image)

- **Signal word**: Danger
- **Hazard statements**:

(Cont'd. on page 2)
Safety Data Sheet
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Trade name: ZyBar

H225 Highly flammable liquid and vapor.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation.
H336 May cause drowsiness or dizziness.
H372 Causes damage to the central nervous system 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.
P233 Keep container tightly 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.
P260 Do not breathe dusts or mists.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P330 Rinse mouth.
P331 Do NOT induce vomiting.
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.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.
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.

- Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

<table>
<thead>
<tr>
<th>Components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-48-9 Naphtha (petroleum), hydrotreated heavy</td>
</tr>
<tr>
<td>Flam. Liq. 3, H226</td>
</tr>
<tr>
<td>Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>10-20%</td>
</tr>
</tbody>
</table>

(Cont’d. on page 3)
<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Name</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>7429-90-5</td>
<td>Aluminum</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>540-88-5</td>
<td>tert-butyl acetate</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>64741-66-8</td>
<td>Naphtha (petroleum), light alkylate</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>xylenes</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>8052-41-3</td>
<td>Stoddard solvent</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>100-41-4</td>
<td>ethylbenzene</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>108-21-4</td>
<td>isopropyl acetate</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>398475-98-2</td>
<td>1,2-Ethanediamine, polymer with aziridine, N-[3-[(2-ethylhexyloxy)-3-oxypropyl]</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>64742-47-8</td>
<td>Distillates (petroleum), hydrotreated light</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>95-63-6</td>
<td>1,2,4-trimethylbenzene</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethanol</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>71-36-3</td>
<td>butan-1-ol</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>
4 First-aid measures

- Description of first aid measures
  - After inhalation:
    Supply fresh air.
    Provide oxygen treatment if affected person has difficulty breathing.
    If experiencing respiratory symptoms: Call a poison center/doctor.
    In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact:
    Immediately remove any clothing soiled by the product.
    Immediately wash with water and soap and rinse thoroughly.
    If skin irritation is experienced, consult a doctor.
  - After eye contact:
    Protect unharmed eye.
    Remove contact lenses if worn.
    Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing:
    Rinse out mouth and then drink plenty of water.
    Do not induce vomiting; immediately call for medical help.
    A person vomiting while lying on their back should be turned onto their side.
  - Most important symptoms and effects, both acute and delayed:
    Breathing difficulty
    Dizziness
    Coughing
    Allergic reactions
    Gastric or intestinal disorders when ingested.
    Nausea in case of ingestion.
    Irritating to eyes and skin.
    Disorientation
  - Danger:
    May cause neurotoxic effects.
    Condition may deteriorate with alcohol consumption.
    Danger of impaired breathing.
    Causes serious eye damage.
    Harmful if swallowed.
    May be fatal if swallowed and enters airways.
    May cause drowsiness or dizziness.
    Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation.
    Causes damage to the central nervous system through prolonged or repeated exposure.
    Suspected of causing cancer.
  - Indication of any immediate medical attention and special treatment needed:
    If swallowed or in case of vomiting, danger of entering the lungs.
    Medical supervision for at least 48 hours.
5 Fire-fighting measures

- **Extinguishing media**
  - Suitable extinguishing agents:
    - Alcohol resistant foam
    - Fire-extinguishing powder
    - Carbon dioxide
    - Gaseous extinguishing agents
    - Water fog / haze
- **For safety reasons unsuitable extinguishing agents:**
  - Water spray
  - Water stream.
- **Special hazards arising from the substance or mixture**
  - Highly flammable liquid and vapor.
  - Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
  - **Protective equipment:**
    - Wear self-contained respiratory protective device.
    - Wear fully protective suit.
  - **Additional information:**
    - Eliminate all ignition sources if safe to do so.
    - Cool endangered containers with water fog.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
  - For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
  - Ensure adequate ventilation.
  - Keep away from ignition sources.
  - Protect from heat.
- **Environmental precautions**
  - Do not allow to enter sewers/ surface or ground water.
  - Prevent from spreading (e.g. by damming-in or oil barriers).
  - Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up**
  - Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
  - Send for recovery or disposal in suitable receptacles.
- **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:**
    - Avoid splashes or spray in enclosed areas.
    - Use only in well ventilated areas.
    - Open and handle receptacle with care.
    - Avoid breathing mist, vapors, or spray.
    - Avoid contact with the eyes and skin.
  - **Information about protection against explosions and fires:**
    - Highly flammable liquid and vapor.
    - Keep ignition sources away - Do not smoke.
    - Protect against electrostatic charges.
    - Flammable gas-air mixtures may be formed in empty containers/receptacles.

- **Conditions for safe storage, including any incompatibilities**
  - **Requirements to be met by storerooms and receptacles:**
    - Avoid storage near extreme heat, ignition sources or open flame.
    - Store in cool, dry conditions in well sealed receptacles.
    - Store in a cool location.
  - **Information about storage in one common storage facility:**
    - Store away from foodstuffs.
    - Store away from oxidizing agents.
  - **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection

- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**
    - **7429-90-5 Aluminum**
      - **PEL (USA)**: Long-term value: 15*; 5** mg/m³
        *Total dust; **Respirable fraction
      - **REL (USA)**: Long-term value: 10* 5** mg/m³
        as Al*Total dust**Respirable/pyro powd./welding f.
      - **TLV (USA)**: Long-term value: 1* mg/m³
        as Al; *as respirable fraction
      - **EL (Canada)**: Long-term value: 1.0 mg/m³
        respirable, as Al
      - **EV (Canada)**: Long-term value: 5 mg/m³
        aluminium-containing (as aluminium)
      - **LMPE (Mexico)**: Long-term value: 1* mg/m³
        A4, *fracción respirable
    - **108-88-3 Toluene**
      - **PEL (USA)**: Long-term value: 200 ppm
        Ceiling limit value: 300; 500* ppm
        *10-min peak per 8-hr shift
      - **REL (USA)**: Short-term value: 560 mg/m³, 150 ppm
### Safety Data Sheet
acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: August 06, 2018  
Revision: August 06, 2018

**Trade name: ZyBar**

<table>
<thead>
<tr>
<th>Component</th>
<th>TLV (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term value: 375 mg/m³, 100 ppm</td>
<td>Long-term value: 75 mg/m³, 20 ppm</td>
<td>BEI</td>
<td>Short-term value: 20 ppm</td>
<td>Long-term value: 20 ppm</td>
<td>Long-term value: 20 ppm</td>
<td>Long-term value: 20 ppm</td>
</tr>
</tbody>
</table>

540-88-5 tert-butyl acetate

<table>
<thead>
<tr>
<th>Component</th>
<th>TLV (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term value: 950 mg/m³, 200 ppm</td>
<td>Long-term value: 950 mg/m³, 200 ppm</td>
<td>Short-term value: 712 mg/m³, 150 ppm</td>
<td>Long-term value: 238 mg/m³, 50 ppm</td>
<td>Long-term value: 200 ppm</td>
<td>Long-term value: 950 mg/m³, 200 ppm</td>
<td>Long-term value: 200 ppm</td>
</tr>
</tbody>
</table>

1330-20-7 xylene

<table>
<thead>
<tr>
<th>Component</th>
<th>TLV (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term value: 435 mg/m³, 100 ppm</td>
<td>Short-term value: 655 mg/m³, 150 ppm</td>
<td>Long-term value: 435 mg/m³, 100 ppm</td>
<td>Short-term value: 651 mg/m³, 150 ppm</td>
<td>Long-term value: 434 mg/m³, 100 ppm</td>
<td>Long-term value: 650 mg/m³, 150 ppm</td>
<td>Long-term value: 435 mg/m³, 100 ppm</td>
</tr>
</tbody>
</table>

8052-41-3 Stoddard solvent

<table>
<thead>
<tr>
<th>Component</th>
<th>TLV (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term value: 2900 mg/m³, 500 ppm</td>
<td>Long-term value: 350 mg/m³</td>
<td>Ceiling limit value: 1800* mg/m³</td>
<td>Long-term value: 525 mg/m³, 100 ppm</td>
<td>Long-term value: 580 mg/m³</td>
<td>Long-term value: 290 mg/m³</td>
<td>Long-term value: 525 mg/m³</td>
</tr>
</tbody>
</table>

100-41-4 ethylbenzene

<table>
<thead>
<tr>
<th>Component</th>
<th>TLV (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<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>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Cont’d. on page 8)
Trade name: ZyBar

<table>
<thead>
<tr>
<th>Identifier</th>
<th>EL (Canada)</th>
<th>TEL (USA)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 87 mg/m³, 20 ppm BEI</td>
<td>Long-term value: 20 ppm IARC 2B</td>
<td>Short-term value: 540 mg/m³, 125 ppm</td>
<td>Long-term value: 20 ppm</td>
</tr>
<tr>
<td>108-21-4 isopropyl acetate</td>
<td>Long-term value: 950 mg/m³, 250 ppm</td>
<td>Short-term value: 626 mg/m³, 150 ppm</td>
<td>Long-term value: 417 mg/m³, 100 ppm</td>
<td>Long-term value: 200 ppm</td>
</tr>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 200 ppm</td>
<td>Long-term value: 100 ppm</td>
<td>Long-term value: 100 ppm</td>
<td>Long-term value: 100 ppm</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 100 ppm</td>
<td>Long-term value: 100 ppm</td>
<td>Long-term value: 100 ppm</td>
<td>Long-term value: 100 ppm</td>
</tr>
</tbody>
</table>

64742-47-8 Distillates (petroleum), hydrotreated light

<table>
<thead>
<tr>
<th>Identifier</th>
<th>EL (Canada)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term value: 200 mg/m³ Skin</td>
<td></td>
</tr>
</tbody>
</table>

95-63-6 1,2,4-trimethylbenzene

<table>
<thead>
<tr>
<th>Identifier</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term value: 125 mg/m³, 25 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term value: 123 mg/m³, 25 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

64-17-5 Ethanol

<table>
<thead>
<tr>
<th>Identifier</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term value: 1900 mg/m³, 1000 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term value: 1900 mg/m³, 1000 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short-term value: 1880 mg/m³, 1000 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short-term value: 1000 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term value: 1,900 mg/m³, 1,000 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term value: 1000 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1333-86-4 Carbon black

<table>
<thead>
<tr>
<th>Identifier</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term value: 3.5 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term value: 3.5* mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*0.1 in presence of PAHs;See Pocket Guide Apps.A+C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term value: 3* mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*inhalable fraction</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term value: 3 mg/m³ IARC 2B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term value: 3.5 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A3, *fracción inhalable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

71-36-3 butan-1-ol

(Cont'd. on page 9)
Trade name: ZyBar

PEL (USA)  Long-term value: 300 mg/m³, 100 ppm
REL (USA)  Ceiling limit value: 150 mg/m³, 50 ppm
Skin
TLV (USA)  Long-term value: 61 mg/m³, 20 ppm
EL (Canada) Long-term value: 15 ppm
Ceiling limit value: 30 ppm
EV (Canada) Long-term value: 20 ppm
LMPE (Mexico) Long-term value: 20 ppm

Ingredients with biological limit values:

108-88-3 Toluene

BET (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)

1330-20-7 xylenes

BET (USA) 1.5 g/g creatinine
Medium: urine
Time: end of shift
Parameter: Methyl hippuric acids

100-41-4 ethylbenzene

BET (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)

Exposure controls
- General protective and hygienic measures:
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Trade name: ZyBar

- Engineering controls: Provide adequate ventilation.
- Breathing equipment: Use suitable respiratory protective device when aerosol or mist is formed.
- Protection of hands:
  
  ![Protective gloves]

  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.

- Eye protection:
  
  ![Safety glasses]

  Follow relevant national guidelines concerning the use of protective eyewear.

- Body protection: Protective work clothing

- Limitation and supervision of exposure into the environment

  No relevant information available.

- Risk management measures

  No relevant information available.

### 9 Physical and chemical properties

- Information on basic physical and chemical properties

  - **Appearance:**
    
    - **Form:** Liquid
    - **Color:** According to product specification
    - **Odor:** Characteristic
    - **Odor threshold:** Not determined.

  - **pH-value:** Not determined.
  - **Melting point/Melting range:** Not determined.
  - **Boiling point/Boiling range:** >35 °C (>95 °F)

  - **Flash point:** <15 °C (<59 °F)

  - **Flammability (solid, gaseous):** Not applicable.

  - **Auto-ignition temperature:** Not determined.

  - **Decomposition temperature:** Not determined.

  - **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

  - **Explosion limits**
    
    - **Lower:** Not determined.
    - **Upper:** Not determined.

  - **Oxidizing properties:** Non-oxidizing.

  - **Vapor pressure:** Not determined.

  - **Density:**
Trade name: ZyBar

Relative density: 1.02
Vapor density: Not determined.
Evaporation rate: Not determined.

- Solubility in / Miscibility with Water: Partly miscible.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity
  Dynamic: Not determined.
  Kinematic: Not determined.
- Other information No relevant information available.

10 Stability and reactivity

- Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
  No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions
  Highly flammable liquid and vapor.
  Reacts violently with oxidizing agents.
  Reacts with strong acids and alkali.
  Toxic fumes may be released if heated above the decomposition point.
  Used empty containers may contain product gases which form explosive mixtures with air.
  Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
- Conditions to avoid
  Keep ignition sources away - Do not smoke.
  Store away from oxidizing agents.
- Incompatible materials Oxidizers
- Hazardous decomposition products
  Under fire conditions only:
  Toxic metal oxide smoke
  Carbon monoxide and carbon dioxide
  Nitrogen oxides (NOx)

11 Toxicological information

- Information on toxicological effects
- Acute toxicity: Harmful if swallowed.
- LD/LC50 values that are relevant for classification:
  DT-490A (TNG_UHTR Version)
  Oral LD50 1,000-6,000 mg/kg (rat)
  Dermal LD50 >5,000 mg/kg (rabbit)

64742-48-9 Naphtha (petroleum), hydrotreated heavy (Cont'd. on page 12)
**Trade name: ZyBar**

<table>
<thead>
<tr>
<th></th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>&gt;5,000 mg/kg (rat)</td>
<td>&gt;3,000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>1330-20-7 xlenes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral LD50</td>
<td>5,000 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>12,124 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>Inhalative LC50/4h</td>
<td>5,320 mg/l (mouse)</td>
<td></td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral LD50</td>
<td>3,500 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>17,800 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>64742-95-6 Solvent naphtha (petroleum), light arom.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral LD50</td>
<td>&gt;6,800 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>&gt;3,400 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>64742-47-8 Distillates (petroleum), hydrotreated light</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral LD50</td>
<td>&gt;5,000 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>&gt;2,000 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>95-63-6 1,2,4-trimethylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral LD50</td>
<td>5,000 mg/kg (rat)</td>
<td></td>
</tr>
</tbody>
</table>

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitization:** Based on available data, the classification criteria are not met.

**IARC (International Agency for Research on Cancer):**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4 ethylbenzene</td>
<td>2B</td>
</tr>
<tr>
<td>64-17-5 Ethanol</td>
<td>1</td>
</tr>
<tr>
<td>1333-88-4 Carbon black</td>
<td>2B</td>
</tr>
</tbody>
</table>

**NTP (National Toxicology Program):**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**Probable route(s) of exposure:**

- Ingestion.
- Inhalation.
- Eye contact.
- Skin contact.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Suspected of causing cancer.
- **Reproductive toxicity:** Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation.
- **STOT-single exposure:** May cause drowsiness or dizziness.
- **STOT-repeated exposure:**

  May cause damage to the central nervous system through prolonged or repeated exposure.

(Cont'd. on page 13)
Trade name: ZyBar

Aspiration hazard: May be fatal if swallowed and enters airways.

12 Ecological information

Toxicity
Aquatic toxicity
Harmful to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50</th>
<th>EC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7 xylenes</td>
<td>13.4 mg/l</td>
<td>&lt;1 mg/kg</td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
<td>1.0-10 mg/kg</td>
<td>4.2 mg/l</td>
</tr>
<tr>
<td>398475-96-2 1,2-Ethanediamine, polymer with aziridine, N-[3-[(2-ethylhexyl)oxy]-3-oxypropyl] derivs., compds. with polyethylene-polypropylene glycol</td>
<td>8 mg/l</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability: No relevant information available.
Bioaccumulative potential: No relevant information available.
Mobility in soil: No relevant information available.
Ecotoxicity:
Remark: Due to mechanical actions of the product (e.g. agglutinations), damages may occur.

Additional ecological information
General notes:
Do not allow product to reach ground water, water course or sewage system.
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects: No relevant information available.

13 Disposal considerations

Waste treatment methods
Recommendation:
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned packagings
Recommendation: Disposal must be made according to official regulations.
### 14 Transport information

- **UN-Number**
  - DOT, ADR, IMDG, IATA: UN1139

- **UN proper shipping name**
  - DOT, IATA: Coating solution
  - ADR, IMDG: COATING SOLUTION

- **Transport hazard class(es)**
  - **DOT**
    - Class: 3
    - Label: 3
  - **ADR**
    - Class: 3 (F1)
    - Label: 3
  - **IMDG, IATA**
    - Class: 3
    - Label: 3

- **Packing group**
  - DOT, ADR, IMDG, IATA: II

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

- **Special precautions for user**
  - Warning: Flammable liquids
  - Danger code (Kemler): 33
  - EMS Number: F-E,S-E

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

- **Transport/Additional information**
  - DOT
### Trade name: ZyBar

- **Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.**

#### ADR

- **Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.**

#### IMDG

- **Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.**

#### IATA

- **Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.5 L each / 1 L net.**

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - United States (USA)
  - SARA

  - **Section 302 (extremely hazardous substances):**
    
    None of the ingredients are listed.

  - **Section 355 (extremely hazardous substances):**
    
    None of the ingredients are listed.

  - **Section 313 (Specific toxic chemical listings):**
    
    | 7429-90-5 | Aluminum  
    | 108-88-3 | Toluene  
    | 1330-20-7 | xylenes  
    | 100-41-4 | ethylbenzene  
    | 95-63-6 | 1,2,4-trimethylbenzene  

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

- **Proposition 65 (California)**

  - **Chemicals known to cause cancer:**
    
    Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

    | 100-41-4 | ethylbenzene  
    | 64-17-5 | Ethanol  

(Cont'd. on page 16)
Trade name: ZyBar

1333-86-4 Carbon black

- Chemicals known to cause developmental toxicity for females:
  None of the ingredients are listed.

- Chemicals known to cause developmental toxicity for males:
  None of the ingredients are listed.

- Chemicals known to cause developmental toxicity:
  Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

  108-88-3 Toluene
  64-17-5 Ethanol

- EPA (Environmental Protection Agency):

  108-88-3 Toluene II
  1330-20-7 xylenes I
  100-41-4 ethylbenzene D
  95-63-6 1,2,4-trimethylbenzene II
  71-36-3 butan-1-ol D

- IARC (International Agency for Research on Cancer):

  100-41-4 ethylbenzene 2B
  64-17-5 Ethanol 1
  1333-86-4 Carbon black 2B

- Canadian Domestic Substances List (DSL) (Substances not listed.):
  All ingredients listed on DSL or NDSL.

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.

- Abbreviations and acronyms:
  ADR: 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
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bio-accumulable, Toxic
  vPvB: very Persistent and very Bioaccumulative
  OSHA: Occupational Safety & Health Administration
  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 Dam. 1: Serious eye damage/eye irritation – Category 1
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
  Carc. 2: Carcinogenicity – Category 2
  Repr. 2: Reproductive toxicity – Category 2
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
  STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Safety Data Sheet
acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: August 06, 2018
Revision: August 06, 2018

Trade name: ZyBar

Asp. Tox. 1: Aspiration hazard – Category 1

Sources
Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Safety Data Sheets, Individual Manufacturers

SDS Prepared by:
ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com