Safety Data Sheet
Polyurethane Sealant/Adhesive White

Section 1. Identification

Product Identifier Polyurethane Sealant/Adhesive White
Synonyms 833XX
Manufacturer Stock Numbers 833XX

Recommended use Refer to Technical Data
Uses advised against Refer to Technical Data

Manufacturer Contact
Address Star brite Inc.
4041 SW 47th Avenue
Fort Lauderdale, FL 33314
USA

Phone (954) 587-6280
Emergency Phone (800) 424-9300
Fax N/A

CHEMTREC

Section 2. Hazards Identification

Classification CARCINOGENICITY - Category 2
EYE DAMAGE/IRRITATION - Category 2A
SENSITIZATION - RESPIRATORY - Category 1
SENSITIZATION - SKIN - Category 1
SKIN CORROSION/IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 1
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 1

Signal Word Danger

Hazard Statements Causes damage to organs through prolonged or repeated exposure: nervous system, sensory organs
Causes damage to organs: sensory organs
Causes serious eye irritation
Causes skin irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
Suspected of causing cancer.

Precautionary Statements

Response
Get medical advice/attention if you feel unwell.
If experiencing respiratory symptoms: Call a poison center/doctor.
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If on skin: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
If eye irritation persists: Get medical advice/attention.
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

Prevention
[In case of inadequate ventilation] wear respiratory protection.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.
Do not breathe dust/fume/gas/mist/vapors/spray.
Do not eat, drink or smoke when using this product.
Do not handle until all safety precautions have been read and understood.
Obtain special instructions before use.
Wear gloves and eye protection/face protection.
Wear protective gloves.

Storage
Store locked up.

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

Ingredients of unknown toxicity
2%

Hazards not Otherwise Classified

Additional Information
None known

Section 3. Ingredients

<table>
<thead>
<tr>
<th>CAS</th>
<th>Ingredient Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>101-68-8</td>
<td>4,4’-Diphenylmethane diisocyanate</td>
<td>0.2% - Max</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon Black</td>
<td>0.3% - Max</td>
</tr>
<tr>
<td>1305-78-8</td>
<td>Calcium oxide</td>
<td>1% - 5%</td>
</tr>
<tr>
<td></td>
<td>Plasticizer Mixture</td>
<td>10% - 30%</td>
</tr>
<tr>
<td>64742-47-8</td>
<td>Petroleum Distillate</td>
<td>2% - Max</td>
</tr>
<tr>
<td>100-41-4</td>
<td>Ethyl benzene</td>
<td>2% - Max</td>
</tr>
<tr>
<td>9002-86-2</td>
<td>Polyvinyl chloride</td>
<td>20% - 35%</td>
</tr>
</tbody>
</table>
Urethane Polymer 25% - 35%
13463-67-7 Titanium Dioxide 3% - Max
1330-20-7 Xylene 6% - Max

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

Section 4. First-Aid Measures

Description of first aid measures

General information:
Immediately remove any clothing soiled by the product.

After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Consult doctor if symptoms persist.
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. Then consult a doctor.

Most important symptoms and effects, both acute and delayed
Dizziness
Headache
Dizziness
Nausea

Indication of any immediate medical attention and special treatment needed
No further relevant information available.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

Unsuitable Extinguishing Media
N/A

Extinguishing media
Suitable extinguishing agents:
Carbon dioxide
Foam
Fire-extinguishing powder

Special hazards arising from the substance or mixture
For safety reasons unsuitable extinguishing agents:
Water with full jet

In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx)

In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Hydrogen cyanide (HCN)
Isocyanates
Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Keep away from ignition sources

Environmental precautions
Do not allow product to reach sewage system or any water course.
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Do not close them (reaction with water forming carbon dioxide)

Section 7. Handling and Storage

Storage
Requirements to be met by storerooms and receptacles:
Provide ventilation for receptacles.

Information about storage in one common storage facility:
Not required.

Further information about storage conditions:
Keep receptacle tightly sealed.
Store in dry conditions.
Store in a cool place.

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

Handling
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.

Section 8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Occupational Exposure Limits</th>
<th>Ingredient Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4,4’-Diphenylmethane diisocyanate</td>
<td>0.005 ppm TWA</td>
<td>0.02 ppm</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Carbon Black</td>
<td>3.5 mg/m³</td>
<td>3.5 mg/m³</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Calcium oxide</td>
<td>2 mg/mm³</td>
<td>5 mg/mm³</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Plasticizer Mixture</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Petroleum Distillate</td>
<td>Not Est.</td>
<td>Not Est.</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Ethyl benzene</td>
<td>100 ppm</td>
<td>100 ppm</td>
<td>125 ppm</td>
</tr>
<tr>
<td></td>
<td>Polyvinyl chloride</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Urethane Polymer</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Titanium Dioxide</td>
<td>10 mg/m³</td>
<td>15 mg/m³</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Xylene</td>
<td>100 ppm</td>
<td>100 ppm</td>
<td>150 ppm</td>
</tr>
</tbody>
</table>
General protective and hygienic measures:
Avoid close or long term contact with the skin.
Wash hands before breaks and at the end of work.
Do not eat, drink or smoke while working.

Breathing equipment:
Use a NIOSH certified vapor cartridge respirator with organic vapor / acid gas cartridge or engineering controls to ensure zero exposure.
Short term filter device: Filter AB

Protection of hands:
Impervious 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.

Eye protection: Tightly sealed goggles

Body protection: Protective work clothing
9002-86-2 polyvinyl chloride
TLV 1* mg/m³
*as respirable fraction

13463-67-7 titanium dioxide
PEL 15* mg/m³
*total dust
REL See Pocket Guide App. A
TLV 10 mg/m³

1330-20-7 xylene, mixture of isomers
PEL 435 mg/m³, 100 ppm
REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm
TLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI

1305-78-8 calcium oxide
PEL 5 mg/m³
REL 2 mg/m³
TLV 2 mg/m³

101-68-8 diphenylmethane-4,4‘-diisocyanate
PEL Short-term value: C 0.2 mg/m³, C 0.02 ppm
REL Short-term value: C 0.2* mg/m³, C 0.02* ppm
Long-term value: 0.05 mg/m³, 0.005 ppm
*10-min
TLV 0.051 mg/m³, 0.005 ppm

The lists that were valid during the creation were used as basis.
Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid, paste</td>
</tr>
<tr>
<td>Color</td>
<td>N/A</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild xylene odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Nil in water</td>
</tr>
<tr>
<td>Partition coefficient Water/n-octanol</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC%</td>
<td>55 g/L per EPA Method 24</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&gt;= 300,000 centipoise @73.4°C</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.2</td>
</tr>
<tr>
<td>Density lbs/Gal</td>
<td>N/A</td>
</tr>
<tr>
<td>Pounds per Cubic Foot</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No flash point</td>
</tr>
<tr>
<td>FP Method</td>
<td>N/A</td>
</tr>
<tr>
<td>Ph</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt;= 137°C</td>
</tr>
<tr>
<td>Boiling Range</td>
<td>N/A</td>
</tr>
<tr>
<td>LEL</td>
<td>N/A</td>
</tr>
<tr>
<td>UEL</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not classified</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>&gt;= 200°C</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Note: The above information is not intended for use in preparing product specifications. Contact Star brite before writing specifications.

Section 10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Stability</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable</td>
</tr>
</tbody>
</table>
Section 11. Toxicological Information

Information on toxicological effects
- Acute toxicity (LD/LC50 values that are relevant for classification)
  1330-20-7 xylene, mixture of isomers
  Oral LD50 8700 mg/kg (rat)
  Dermal LD50 2000 mg/kg (rnt)
  Inhalative LD50/4 h 6350 mg/l (rat)

Primary irritant effect
- On the skin: May be slightly irritant.
- On the eye: Light irritating effect.
- Sensitization: Sensitization possible through inhalation.

Carcinogenic categories
- IARC (International Agency for Research on Cancer)
  9002-86-2 polyvinyl chloride 3
  1330-20-7 xylene, mixture of isomers 3
  13463-67-7 titanium dioxide 2B
  100-41-4 ethylbenzene 2B
  1309-37-1 diiron trioxide 3
  1333-86-4 Carbon black 2B
  101-68-8 diphenylmethane-4,4′-diisocyanate 3

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

Section 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
- Water hazard class 1 (Self-assessment): slightly hazardous for water.
  Do not allow product to reach ground water, water course or sewage system.

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

Section 13. Disposal

Waste treatment methods
Must be disposed of in an incinerator for hazardous waste according to official regulations.

Uncleaned packagings
Disposal must be made according to official regulations.
Section 14. Transport Information

<table>
<thead>
<tr>
<th>UN Number</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Proper Shipping Name</td>
<td>N/A</td>
</tr>
<tr>
<td>DOT Classification</td>
<td>N/A</td>
</tr>
<tr>
<td>Packing Group</td>
<td>N/A</td>
</tr>
<tr>
<td>Ocean Shipment (IMDG)</td>
<td>Not subject to IMDG code.</td>
</tr>
<tr>
<td>Road/Rail (ADR/RID)</td>
<td>Not subject to ADR/RID.</td>
</tr>
<tr>
<td>Air Shipment (IATA)</td>
<td>Not subject to IATA regulations.</td>
</tr>
<tr>
<td>Road Shipment Information (DOT)</td>
<td>Not subject to DOT regulations.</td>
</tr>
</tbody>
</table>

Section 15. Regulatory Information

- **TSCA**: All components are on the US TSCA inventory.

- **SARA Section 313 (Specific toxic chemical listings)**
  - 1330-20-7 xylene, mixture of isomers
  - 100-41-4 ethylbenzene
  - 101-68-8 diphenylmethane-4,4’-diisocyanate

- **SARA Section 355 (Extremely hazardous substances)**: None of the ingredient is listed.

- **California Proposition 65**
  - Chemicals known to cause cancer:
    - 100-41-4 ethylbenzene
    - 1333-86-4 Carbon black
  - 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.

- **Carcenogenicity Catagories**
  - **EPA (Environmental Protection Agency)**
    - 1330-20-7 xylene, mixture of isomers I
    - 100-41-4 ethylbenzene D
    - 101-68-8 diphenylmethane-4,4’-diisocyanate CBD
  - **TLV (Threshold Limit Value established by ACGIH)**
    - 9002-86-2 polyvinyl chloride A4
    - 1330-20-7 xylene, mixture of isomers A4
    - 13463-67-7 titanium dioxide A4
    - 100-41-4 ethylbenzene A3
    - 1309-37-1 diiron trioxide A4
    - 1333-86-4 Carbon black A4
    - 77-58-7 dibutyltin dilaurate A4
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    - 13463-67-7 titanium dioxide
    - 1333-86-4 Carbon black
None of the ingredients is listed.

**Section 16. Other Information**

<table>
<thead>
<tr>
<th>Revision Date</th>
<th>6/12/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disclaimer</td>
<td>The data contained herein is based upon information that Star brite believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.</td>
</tr>
</tbody>
</table>