SECTION 1
IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER/TRADE NAME:
STAR-TRITON

1.2 RELIVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:
No further relevant information available.
Application of the Substance / the Mixture: Sealcoating for Pavements

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:
Manufacturer/Supplier: Specialty Technology And Research, Incorporated (S.T.A.R., Inc.)
1150 Milepost Drive, Columbus, Ohio 43228
Tel: +1-614-870-0744 • Fax: +1-614-870-0598 • Toll Free +1-800-759-1912
Web Site: www.starseal.com

1.4 EMERGENCY TELEPHONE NUMBER:
ChemTel, Inc.
(800)255-3924, +1(813)248-0585

SECTION 2
HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:
The following classifications are applicable only to the general GHS regulations and not the Specific CLP regulation: H360
The following hazard statements are applicable only to the EU regulations and not the US GHS regulation: H360FD, H400, H410
Repr. 1 H360: May damage fertility of the unborn child

Health Hazard
Muta. 1B H340 May cause genetic defects.
Carc. 1B H350 May cause cancer.
Repr. 1B H360FD May damage fertility. May damage the unborn child.

Environment
Aquatic Chronic 1 H411 Toxic to aquatic life with long lasting effects

Skin Sens. 1 H317 May cause an allergic skin reaction.

CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/ECC or DIRECTIVE 1999/45/EC
T; Toxic

Xi; Sensitizing
R43 Irritating to skin. May cause sensitization by skin contact.

N; Dangerous to the environment
R50/53; Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label Elements
Labeling according to Regulation (EC) No 1272/2008
The product is classified and labeled according to the Globally Harmonized System (GHS).

Signal word Danger

Hazard-determining components of labeling:
Residues (Petroleum steam-cracked. benzo[a]pyrene

Hazard statements
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H360FD, H410.
The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H360.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H340 May cause genetic defects.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H360FD May damage fertility. May damage the unborn child.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P273 Avoid release to environment.
P261 Avoid breathing mist/vapors/spray.
P281 Use personal protective equipment as required.
P202 Do not handle until all safety precautions have been read and understood.
P308+P313 If exposed or concerned: Get medical advice/attention.
P303+P330+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin well with water/shower.
P301+P330+P351 IF SWALLOWED, rinse mouth. DO NOT induce vomiting.
**SECTION 3**  
**COMPOSITION / INFORMATION ON INGREDIENTS**

### 3.1 Substance
- Not applicable

### 3.2 Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions

**Dangerous components:**

<table>
<thead>
<tr>
<th>CAS: 64742-90-1</th>
<th>Residue, Petroleum, Steam-cracked PBT</th>
<th>20-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 1332-58-7</td>
<td>Kaolin substance with a Community workplace exposure limit</td>
<td>15-20%</td>
</tr>
<tr>
<td>CAS: 14808-60-7</td>
<td>quartz substance with a Community workplace exposure limit</td>
<td>3-7%</td>
</tr>
</tbody>
</table>

**CAS: 91-20-3**  
EINECS: 202-049-5  
Index number: 601-052-00-2  
- naphthalene  
  - Xn R22-40;  
  - N R50/53  
  - Carc. Cat. 3  
  - Carc. 2, H351  
  - Aquatic Acute 1, H400; Aquatic Chronic 1, H410  
  - Acute Tox. 4, H302

**CAS: 50-32-8**  
EINECS: 200-028-5  
Index number: 601-032-00-3  
- benzo[a]pyrene  
  - T Carc. Cat. 2, Muta. Cat. 2, Repr. Cat. 2 R45-46-60-61;  
  - Xi R43;  
  - N R50/53  
  - Muta. 1B, H340; Carc. 1B, H350; Repr. 1B, H360FD  
  - Aquatic Acute 1, H400; Aquatic Chronic 1, H410

---

**P305+P351+P33** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P370+P378** In case of fire: Use for extinction: CO2, Powder. Do not use water.

**P403+P233** Store in a well-ventilated place. Keep containers tightly closed.

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

**Additional information:**  
Restricted to professional users.

**Hazard description:**

**WHMIS-symbols:**

D2A - Very toxic material causing other toxic effects

---

**2.3 Other Hazards**

**Results of PBT and vPvB assessment**

- PBT: Not Applicable
- vPvB: Not applicable.
Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4  FIRST AID MEASURES

4.1 Description of first aid measures

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

After inhalation:
Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.

After skin contact:
Do not pull solidified product off the skin.
Immediately wash with water and soap and rinse thoroughly.
Remove any clothing soiled by the product.
If skin irritation continues, consult a doctor.

After eye contact:
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions
Slight irritant effect on skin and mucous membranes.
Slight irritant effect on eyes.
Gastric or intestinal disorders.

Hazards
Carcinogenic.
May damage fertility or the unborn child.
Possible risk of irreversible effects.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.
May produce a nephrotoxic / hepatotoxic effect.
Contains benzo[a]pyrene. May produce an allergic reaction.

SECTION 5  FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

Additional information No further relevant information available

SECTION 6
ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Particular danger of slipping on leaked/spilled product.
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

6.2 Environmental precautions:
Do not allow to enter sewers/surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Pick up mechanically.
Dispose contaminated material as waste according to item 13.
Send for recovery or disposal in suitable receptacles.

6.4 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.

SECTION 7
HANDLING AND STORAGE

7.1 Precautions for safe handling
Use only in well ventilated areas.
Open and handle receptacle with care.
Prevent formation of aerosols.

Information about fire - and explosion protection: Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: Keep out of the reach of children. Keep in tightly closed containers.

Information about storage in one common storage facility:
Store away from foodstuffs.
Store away from oxidizing agents.
Do not store together with acids.

Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Protect from frost.

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

SECTION 8
EXPOSURE CONTROLS / PERSONAL PROTECTION
**Additional information about design of technical facilities:** No further data; see item 7.

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>DNELs</th>
<th>PNECs</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-32-8 benzo[a]pyrene</td>
<td>Long-term value: 0.2 mg/m³</td>
<td>Long-term value: 0.1 mg/m³</td>
<td>L; BEIp</td>
<td>ACGIH A2; IARC 1</td>
<td>No further relevant information available.</td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 0.2 mg/m³</td>
<td>Coal tar pitch volatile; Pocket Guide Apps. A+C</td>
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<tr>
<td>REL (USA)</td>
<td>Long-term value: 0.1 mg/m³</td>
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<tr>
<td>TLV (USA)</td>
<td>L; BEIp</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>ACGIH A2; IARC 1</td>
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</tr>
</tbody>
</table>

**1332-58-7 Kaolin**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 15* 5** mg/m³</td>
<td>Long-term value: 10* 5** mg/m³</td>
<td>Long-term value: 2* mg/m³</td>
<td>Long-term value: 2 mg/m³</td>
<td>Long-term value: 2(D) mg/m³</td>
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<tr>
<td>REL (USA)</td>
<td>*total dust **respirable fraction</td>
<td>*total dust **respirable fraction</td>
<td>E; as respirable fraction</td>
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<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 2* mg/m³</td>
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<tr>
<td>EL (Canada)</td>
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<td></td>
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<tr>
<td>EV (Canada)</td>
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</table>

**14808-60-7 quartz**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>PEL(UA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL(UA)</td>
<td>see Quartz listing</td>
<td>Long-term value: 0.05* mg/m³</td>
<td>Long-term value: 0.025* mg/m³</td>
<td>Long-term value: 0.025 mg/m³</td>
<td>Long-term value: 0.10* mg/m³</td>
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<tr>
<td>REL (USA)</td>
<td>*respirable dust; See Pocket Guide App. A</td>
<td>*as respirable fraction</td>
<td>ACGIH A2; IARC 1</td>
<td>ACGIH A2; IARC 1</td>
<td>ACGIH A2; IARC 1</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 0.025* mg/m³</td>
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<tr>
<td>EL (Canada)</td>
<td>Long-term value: 0.025 mg/m³</td>
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<td>EV (Canada)</td>
<td>Long-term value: 0.025 mg/m³</td>
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**91-20-3 naphthalene**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>IOELV (EU)</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IOELV (EU)</td>
<td>Long-term value: 30 mg/m³, 10 ppm</td>
<td>Long-term value: 50 mg/m³, 10 ppm</td>
<td>Short-term value: 75 mg/m³, 15 ppm</td>
<td>Long-term value: 50 mg/m³, 10 ppm</td>
<td>Short-term value: 15 ppm</td>
<td>Short-term value: 78 mg/m³, 15 ppm</td>
</tr>
<tr>
<td>PEL (USA)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Short-term value: 75 mg/m³, 15 ppm</td>
<td>Long-term value: 50 mg/m³, 10 ppm</td>
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<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 52 mg/m³, 10 ppm</td>
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<tr>
<td>EL (Canada)</td>
<td>Short-term value: 15 ppm</td>
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</tr>
<tr>
<td>EV (Canada)</td>
<td>Short-term value: 15 ppm</td>
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</tr>
</tbody>
</table>

**Skin; BEI**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>IOELV (EU)</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IOELV (EU)</td>
<td>Long-term value: 30 mg/m³, 10 ppm</td>
<td>Long-term value: 50 mg/m³, 10 ppm</td>
<td>Short-term value: 75 mg/m³, 15 ppm</td>
<td>Long-term value: 50 mg/m³, 10 ppm</td>
<td>Short-term value: 15 ppm</td>
<td>Short-term value: 78 mg/m³, 15 ppm</td>
</tr>
<tr>
<td>PEL (USA)</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Short-term value: 75 mg/m³, 15 ppm</td>
<td>Long-term value: 50 mg/m³, 10 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 52 mg/m³, 10 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Short-term value: 15 ppm</td>
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</tr>
<tr>
<td>EV (Canada)</td>
<td>Short-term value: 15 ppm</td>
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</table>

**Skin; IARC 2B**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>IOELV (EU)</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IOELV (EU)</td>
<td>Long-term value: 30 mg/m³, 10 ppm</td>
<td>Long-term value: 50 mg/m³, 10 ppm</td>
<td>Short-term value: 75 mg/m³, 15 ppm</td>
<td>Long-term value: 50 mg/m³, 10 ppm</td>
<td>Short-term value: 15 ppm</td>
<td>Short-term value: 78 mg/m³, 15 ppm</td>
</tr>
<tr>
<td>PEL (USA)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Short-term value: 75 mg/m³, 15 ppm</td>
<td>Long-term value: 50 mg/m³, 10 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 52 mg/m³, 10 ppm</td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Short-term value: 15 ppm</td>
<td></td>
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</tr>
<tr>
<td>EV (Canada)</td>
<td>Short-term value: 15 ppm</td>
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</tr>
</tbody>
</table>

**Skin; IARC 2B**
8.2 Exposure controls

**Personal protective equipment:**

**General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
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.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Pregnant women should strictly avoid inhalation or skin contact.

**Respiratory protection:**
Not required under normal conditions of use.
Use suitable respiratory protective device when aerosol or mist is formed.
Use suitable respiratory protective device in case of insufficient ventilation.
For spills, respiratory protection may be advisable.

**Protection of hands:**
Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
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:**
Safety glasses

**Body protection:**
Protective work clothing

**Limitation and supervision of exposure into the environment**
No further relevant information available.

**Risk management measures**
See Section 7 for additional information.

8.3 Other Information: No further relevant information available.
SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information:

Appearance:
Form ........................................ Heavy Bodied Semi-Fluid Liquid
Color ........................................ Dark Chocolate Brown
Odor ........................................ Slightly Bituminous odor
Odor Threshold ................................ Not determined
Ph Value ..................................... Not determined

Change in Condition:
Melting point/Melting Range .......... Not Determined
Boiling point/Boiling range .......... Undetermined
Flash Point .................................. Not Applicable
Flammability (Solid Gaseous) ........ Not Applicable
Auto/Self-Ignition Temperature ....... Not determined
Decomposition Temperature .......... Not determined

Self-Igniting .................................. Product is not self-igniting.
Danger of Explosion ...................... Product does not present an explosion Hazard.

Explosion Limits:
Lower ........................................ Not determined
Upper ........................................ Not determined
Vapor Pressure .............................. Not determined
Density at 20° C ............................ 1.20 – 1.25 g/cm³
Relative Density ............................ Not Determined
Vapor Density ............................... Not Determined
Evaporation Rate ........................... Not Determined
Solubility in/Miscibility with Water .... Dilutable with water
Partition Coefficient (n-octanol/water) Not Determined

Viscosity:
Dynamic .................................... Not Determined
Kinematic ................................... Not Determined

9.2 Other Information: No further relevant information available

(Continued on page 11)
(Continued from page 10)

SECTION 10  STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability
   Thermal decomposition/conditions to be avoided:
   No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions
   Toxic fumes may be released if heated above the decomposition point.
   Reacts with strong oxidizing agents.
   Reacts with strong acids.
10.4 Conditions to avoid: Store away from oxidizing agents and heat.
10.5 Incompatible materials: No further relevant information available.
10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11  TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity: Not Classified.

<table>
<thead>
<tr>
<th>LD/LC50 values relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>91-20-3 naphthalene</td>
</tr>
<tr>
<td>Oral LD50 490 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50 5000 mg/kg (rat)</td>
</tr>
</tbody>
</table>

Primary irritant effect:
On the skin: Slight irritant effect on skin and mucous membranes.
On the eye: Slight irritant effect on eyes.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant
Danger through skin adsorption.
The product can cause inheritable damage.
Toxic and/or corrosive effects may be delayed up to 24 hours.
May cause genetic defects.
May cause cancer.
May damage fertility or the unborn child.

Sensitization: Sensitization possible by skin contact.

Repeated dose toxicity:
May cause damage to organs through prolonged or repeated exposure.
Repeated exposures may result in skin and/or respiratory sensitivity.

SECTION 12  ECOLOGICAL INFORMATION

12.1 Toxicity
Aquatic toxicity: Toxic for aquatic organisms.

12.2 Persistence and degradability:
No further relevant information available.

12.3 Bio-accumulative potential:
No further relevant information available.

12.4 Mobility in soil:
No further relevant information available.

12.5 Results of PBT and vPvB assessment:
None available

12.6 Other adverse effects:
No further relevant information available.

SECTION 13  DISPOSAL CONSIDERATION

13.1 Waste treatment methods
Recommendation:
Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. 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. Residual materials should be treated as hazardous.

Uncleaned packaging:
Recommendation:
Disposal must be made according to official regulations.

SECTION 14  TRANSPORTATION INFORMATION

In accordance with DOT.
14.1 UN-Number  Not Applicable.
14.2 UN proper shipping name  Not Applicable
14.3 Additional Information  None available
Special Transport Precaution-
Read all safety precautions before handling the product.

SECTION 15  REGULATORY INFORMATION

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

Section 313 (Specific toxic chemical listings):
91-20-3  naphthalene
50-32-8  benzo[a]pyrene

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

Proposition 65 (California):
Chemicals known to cause cancer:
Reference to Crystalline Silica and/or Quartz is based on unbound respirable particles and is not generally applicable to product as supplied.

14808-60-7  quartz
91-20-3  naphthalene
218-01-9  chrysene
50-32-8  benzo[a]pyrene

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

(Continued on page 16)
(Continued from page 15)
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)

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Carcinogenic Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>91-20-3</td>
<td>naphthalene</td>
<td>C, CBD</td>
</tr>
<tr>
<td>50-32-8</td>
<td>benzo[a]pyrene</td>
<td>B2</td>
</tr>
</tbody>
</table>

IARC (International Agency for Research on Cancer)

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Carcinogenic Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7</td>
<td>quartz</td>
<td>1</td>
</tr>
<tr>
<td>91-20-3</td>
<td>naphthalene</td>
<td>2B</td>
</tr>
<tr>
<td>50-32-8</td>
<td>benzo[a]pyrene</td>
<td>1</td>
</tr>
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</table>

TLV (Threshold Limit Value established by ACGIH)

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>TLV (USA)</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-32-8</td>
<td>benzo[a]pyrene</td>
<td>TLV (USA)</td>
<td>A1</td>
</tr>
<tr>
<td>1332-58-7</td>
<td>Kaolin</td>
<td>A4</td>
<td></td>
</tr>
<tr>
<td>14808-60-7</td>
<td>quartz</td>
<td>A2</td>
<td></td>
</tr>
<tr>
<td>91-20-3</td>
<td>naphthalene</td>
<td>A4</td>
<td></td>
</tr>
<tr>
<td>50-32-8</td>
<td>benzo[a]pyrene</td>
<td>A2</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7</td>
<td>quartz</td>
<td></td>
</tr>
<tr>
<td>50-32-8</td>
<td>benzo[a]pyrene</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 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.

Relevant phrases

- **H302**: Harmful if swallowed.
- **H314**: Causes severe skin burns and eye damage.
- **H317**: May cause an allergic skin reaction.
- **H318**: Causes serious eye damage.
- **H340**: May cause genetic defects.
- **H341**: Suspected of causing genetic defects.
- **H350**: May cause cancer.
- **H351**: Suspected of causing cancer.
- **H360FD**: May damage fertility. May damage the unborn child.
- **H373**: May cause damage to organs through prolonged or repeated exposure.
- **H400**: Very toxic to aquatic life.
- **H410**: Very toxic to aquatic life with long lasting effects.

R20 Harmful by inhalation.

(Continued on page 18)

(Continued from page 17)
R22  Harmful if swallowed.
R40  Limited evidence of a carcinogenic effect.
R43  May cause sensitization by skin contact.
R45  May cause cancer.
R46  May cause heritable genetic damage.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R60  May impair fertility.
R61  May cause harm to the unborn child.
R68  Possible risk of irreversible effects.

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
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
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)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Skin Sens. 1: Sensitization - Skin, Hazard Category 1
Muta. 1B: Germ cell mutagenicity, Hazard Category 1B
Muta. 2: Germ cell mutagenicity, Hazard Category 2
Carc. 1B: Carcinogenicity, Hazard Category 1B
Carc. 2: Carcinogenicity, Hazard Category 2
Repr. 1B: Reproductive toxicity, Hazard Category 1B
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Aquatic Acute 1: Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Sources
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Website: www.starseal.com

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- END OF SDS -