

**Safety Data Sheet**  
Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: March 16, 2018

Revision: March 16, 2018

**1 Identification**

- **Product identifier**
- **Trade name:** Star Sure Flex
- **Product code:** 530005, 530055
- **Recommended use and restriction on use**
- **Recommended use:** Asphalt patching compound and crack filler
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
STAR SPECIALTY TECHNOLOGY AND RESEARCH (S.T.A.R. Inc)  
1150 Milestone Drive  
Columbus, OH 43228  
Toll Free: (800)759-1912  
Office: (614)870-0744  
Fax: (614)870-0598  
Info@StarSeal.com
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)

**2 Hazard(s) identification**

- **Classification of the substance or mixture**  
Carc. 2 H351 Suspected of causing cancer.
- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS08

- **Signal word:** Warning
- **Hazard statements:**  
H351 Suspected of causing cancer.
- **Precautionary statements:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
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.

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**3 Composition/information on ingredients**

• **Chemical characterization: Mixtures**

• **Components:**

8052-42-4	Asphalt	☠ Carc. 2, H351	20-40%
14808-60-7	quartz		10-20%
1332-58-7	Clay		10-20%
9004-34-6	cellulose		<1%

• **Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.  
For the wording of the listed Hazard Statements, refer to section 16.

**4 First-aid measures**

• **Description of first aid measures**

• **After inhalation:**

Respiration of particulates is unlikely during normal usage.  
Supply fresh air; consult doctor in case of complaints.

• **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
If skin irritation is experienced, 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; immediately call for medical help.

• **Most important symptoms and effects, both acute and delayed:**

Coughing  
Breathing difficulty  
Mechanical irritation to eyes.  
Nausea in case of ingestion.

• **Danger:** Suspected of causing cancer.

• **Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

**5 Fire-fighting measures**

• **Extinguishing media**

• **Suitable extinguishing agents:**

The product is not flammable.  
Use fire fighting measures that suit the environment.

• **For safety reasons unsuitable extinguishing agents:** None.

• **Special hazards arising from the substance or mixture**

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

• **Advice for firefighters**

• **Protective equipment:**

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Wear self-contained respiratory protective device.  
Wear fully protective suit.

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**6 Accidental release measures**

· **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.  
Use personal protective equipment as required.  
Use respiratory protective device against the effects of fumes/dust/aerosol.

· **Environmental precautions** No special measures required.

· **Methods and material for containment and cleaning up**

Allow to solidify. Pick up mechanically.  
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:**

Use only outdoors or in a well-ventilated area.  
Avoid splashes or spray in enclosed areas.  
Take off contaminated clothing and wash it before reuse.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **Requirements to be met by storerooms and receptacles:**

Store in cool, dry conditions in well sealed receptacles.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.  
Store away from oxidizing agents.

· **Further information about storage conditions:** Store locked up.

· **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:**

**8052-42-4 Asphalt**

REL (USA)	Ceiling limit value: 5* mg/m <sup>3</sup> *15-min; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.5* mg/m <sup>3</sup> *inh. fraction; as benzene-soluble aerosol; BEIp
EL (Canada)	Long-term value: 0.5 mg/m <sup>3</sup>

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EV (Canada)	inhalable; IARC 2A: oxidized; IARC 2B: straight-run Long-term value: 0.5 mg/m <sup>3</sup> fume, as benzene-soluble aerosol, inhalable
LMPE (Mexico)	Long-term value: 0.5* mg/m <sup>3</sup> A4, IBEp; *fracción inhalable

**14808-60-7 quartz**

PEL (USA)	see Quartz listing
REL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction
EL (Canada)	Long-term value: 0.025 mg/m <sup>3</sup> ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0.10* mg/m <sup>3</sup> *respirable fraction
LMPE (Mexico)	Long-term value: 0.025* mg/m <sup>3</sup> A2, *fracción respirable

**1332-58-7 Clay**

PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	Long-term value: 2* mg/m <sup>3</sup> E; as respirable fraction
EL (Canada)	Long-term value: 2 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 2(D) mg/m <sup>3</sup> respirable
LMPE (Mexico)	Long-term value: 2* mg/m <sup>3</sup> A4, *fracción respirable

**9004-34-6 cellulose**

PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	Long-term value: 10 mg/m <sup>3</sup>
EL (Canada)	Long-term value: 10* 3** mg/m <sup>3</sup> *total dust, **respirable fraction
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> paper fibre, total dust
LMPE (Mexico)	Long-term value: 10 mg/m <sup>3</sup>

**Ingredients with biological limit values:**

<b>8052-42-4 Asphalt</b>	
BEI (USA)	- Medium: urine

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Time: end of shift at end of workweek  
Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

- **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.  
Avoid contact with the eyes and skin.
- **Engineering controls:** Provide adequate ventilation.
- **Breathing equipment:**  
Not required under normal conditions of use.  
Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.
- **Protection of hands:**  
Not required under normal conditions of use.  
Gloves are advised for repeated or prolonged contact.  
Wear protective gloves to handle contents of damaged or leaking units.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- **Body protection:**  
Not required under normal conditions of use.  
Protection may be required for spills.
- **Limitation and supervision of exposure into the environment**  
No relevant information available.

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

- **Appearance:**
  - **Form:** Viscous mastic
  - **Color:** Brown
- **Odor:** Asphalt
- **Odor threshold:** Not determined.
- **pH-value:** 9.0-10.0
- **Melting point/Melting range:** 0 °C (32 °F)
- **Boiling point/Boiling range:** >100 °C (>212 °F)
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not applicable.
- **Auto-ignition temperature:** Not determined.

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· <b>Decomposition temperature:</b>	Not determined.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Oxidizing properties:</b>	Non-oxidizing.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density at 20 °C (68 °F):</b>	1.20-1.25 g/cm <sup>3</sup> (10.01-10.43 lbs/gal)
· <b>Relative density:</b>	Not determined.
· <b>Vapor density:</b>	Not determined.
· <b>Evaporation rate:</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No relevant information available.

### 10 Stability and reactivity

- **Reactivity:** The product is non-reactive under normal conditions of use, storage and transport.
- **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** No dangerous reactions known.
- **Conditions to avoid** Do not allow product to freeze.
- **Incompatible materials** Oxidizers, strong bases, strong acids
- **Hazardous decomposition products** Carbon monoxide and carbon dioxide

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer):**

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8052-42-4	Asphalt	2B
14808-60-7	quartz	1
<b>NTP (National Toxicology Program):</b>		
14808-60-7	quartz	K
<b>OSHA-Ca (Occupational Safety &amp; Health Administration):</b>		
None of the ingredients are listed.		
<b>Probable route(s) of exposure:</b>		
Ingestion.		
Eye contact.		
Skin contact.		
<b>Acute effects (acute toxicity, irritation and corrosivity):</b> May cause respiratory irritation.		
<b>Germ cell mutagenicity:</b> Based on available data, the classification criteria are not met.		
<b>Carcinogenicity:</b> Suspected of causing cancer.		
<b>Reproductive toxicity:</b> Based on available data, the classification criteria are not met.		
<b>STOT-single exposure:</b> Based on available data, the classification criteria are not met.		
<b>STOT-repeated exposure:</b> Based on available data, the classification criteria are not met.		
<b>Aspiration hazard:</b> Based on available data, the classification criteria are not met.		

**12 Ecological information**

**Toxicity**

- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.

**Additional ecological information**

**General notes:**

Due to available data on eliminability/decomposition and bioaccumulation potential, a prolonged damage of the environment is unlikely.

- **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.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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### 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>	Not regulated.
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>	Not regulated.
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· DOT, ADR, IMDG, IATA</li> <li>· <b>Class</b></li> </ul>	Not regulated.
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>	Not regulated.
<ul style="list-style-type: none"> <li>· <b>Environmental hazards</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	Not applicable.

### 15 Regulatory information

<ul style="list-style-type: none"> <li>· <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b></li> <li>· <b>United States (USA)</b></li> <li>· <b>SARA</b></li> </ul>					
<ul style="list-style-type: none"> <li>· <b>Section 302 (extremely hazardous substances):</b></li> </ul>	None of the ingredients are listed.				
<ul style="list-style-type: none"> <li>· <b>Section 355 (extremely hazardous substances):</b></li> </ul>	None of the ingredients are listed.				
<ul style="list-style-type: none"> <li>· <b>Section 313 (Specific toxic chemical listings):</b></li> </ul>	None of the ingredients are listed.				
<ul style="list-style-type: none"> <li>· <b>TSCA (Toxic Substances Control Act)</b></li> </ul>	All ingredients are listed.				
<ul style="list-style-type: none"> <li>· <b>Proposition 65 (California)</b></li> <li>· <b>Chemicals known to cause cancer:</b></li> </ul>	Reference to Crystalline Silica and/or Quartz is based on unbound respirable particles and is not generally applicable to product as supplied.				
<table border="1" style="width: 100%;"> <tr> <td style="width: 15%;">8052-42-4</td> <td>Asphalt</td> </tr> <tr> <td>14808-60-7</td> <td>quartz</td> </tr> </table>	8052-42-4	Asphalt	14808-60-7	quartz	
8052-42-4	Asphalt				
14808-60-7	quartz				
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for females:</b></li> </ul>	None of the ingredients are listed.				
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for males:</b></li> </ul>	None of the ingredients are listed.				

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**· Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**· EPA (Environmental Protection Agency):**

None of the ingredients are listed.

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

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14808-60-7	quartz	1

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

8052-42-4	Asphalt
14808-60-7	quartz

### 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.

**· Date of preparation / last revision** March 16, 2018 / -

**· 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
- NIOSH: National Institute for Occupational Safety and Health
- OSHA: Occupational Safety & Health Administration
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- BEI: Biological Exposure Limit
- Carc. 2: Carcinogenicity – Category 2

**· Sources**

- Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))
- Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sor-internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sor-internet/registry/substreg/home/overview/home.do))
- Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))
- Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
- Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
- Safety Data Sheets, Individual Manufacturers

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