

STAR MICRO-PAVE AVIATOR SAFETY DATA SHEET PAGE 1 OF 13

According to 190/2006/EC (REACH), 1272/2008/EC (CLP) and GHS

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SECTION 1

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

- 1.1 PRODUCT IDENTIFIER/TRADE NAME: STAR MICRO-PAVE AVIATOR
- 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 43228Tel: +1-614-870-0744 • Fax: +1-614-870-0598 • Toll Free +1-800-759-1912Web 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: CLASSIFICATION ACCORDING TO REGULATION (EC) NO. 1272/2008



Repr.

Health Hazard

2 H351 Sus 1A H360 Ma

Suspected of causing cancer. May damage fertility or the unborn child.

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

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



R60-61:

May impair fertility. May cause harm to the unborn child.



R40

Xn; Harmful

Limited evidence of a carcinogenic effect.

Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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Classification system:

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

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

2.2 Label Elements

Labeling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

Hazard pictograms



Signal word Danger

Hazard-determining components of labeling:

Asphalt

2,2',2"-(hexahydro-1,3,5-triazine-1,3,5-triyl) triethanol Carbon black

Ethanol, 2,2'-iminobis-, N-coco alkyl derivs.

Hazard statements

- H317 May cause an allergic skin reaction.
- H350 Suspected of causing cancer.
- H360 May damage fertility or the unborn child.

Precautionary statements

P261	Avoid breathing mist/vapors/spray.
P281	Use personal protective equipment as required.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
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



NFPA ratings (Scale 0-4)



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HMIS ratings (Scale 0-4)

HEALTH	*2	
FLAMMABILITY	1	
REACTIVITY	0	
Health = *2		
Fire = 1		
Reactivity = 0		

* - Indicates a long term health hazard from repeated or prolonged exposures.

HMIS Long Term Health Hazard Substances

14808-60-7 quartz	
13463-67-7 titanium dioxide	
8052-42-4 Asphalt	

2.3 Other Hazards

Results of PBT and vPvB assessment PBT: Not applicable.

vPvB: Not applicable.

SECTION 3

COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

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

CAS: 8052-42-4 EINECS: 232-490-9 Index number: 648-055-00-5	Asphalt. PBT I Repr. Cat. 1 R60-61; I Xn R40 Carc, Cat. 3	25-50%
	Carc. 2, H351; Repr. 1A, H360	
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	2.5-10%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon Black Xn R40 Carc, Cat. 3 Carc. 2, H351	1-3%
CAS: 14808-60-7	Quartz substance with a Community workplace exposure limit	2.5-10%
CAS: 4719-04-4 EINECS: 225-208-0 Index number: 613-114-00-6	2.2'.2"- (Hexahydro-1.3.5-Triazine-1.3.5-triyl)triethanol ■ T R23-48/23; Xn R22; Xi R43 ↓Acute Tox. 4, H302; Skin Sens. 1, H317	≤ 2.5%
CAS: 61791-31-9 EINECS: 263-163-9	Ethanol, 2.2'-iminobis-, N-coco alkyl derivs. C R34; Xn R22 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302; Skin Sens. 1, H317	≤ 2.5%

Additional information: For the wording of the listed risk phrases refer to section 16.

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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.

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. Contains 2.2'.2"-(Hexahydro-1.3.5-triazine-1.3.5-triyl)triethanol. May produce an allergic reaction.

SECTION 5

FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: None

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

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SECTION 6

ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
 Ensure adequate ventilation.
 Wear protective equipment. Keep unprotected persons away.

 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.

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: Store only in the original receptacle.

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.

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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:		
8052-42-4 Asp	8052-42-4 Asphalt	
REL (USA)	Ceiling limit: 5* mg/m ³ *15-min: See Pocket Guide App A	
TLV (USA)	Long-term value: 0.2 mg/m³ *inh. fraction as benzene-soluble aerosol; BElp	
EL (Canada)	Long-term value: 0.5 mg/m³ Inhalable IARC 2B	
EV (Canada)	Long-term value: 0.5 mg/m³ fume, as benzene-soluble aerosol, inhalable	

1332-58-7 Kaolin

PEL (USA)Long-term value: 15* 5** mg/m³ *total dust **respirable fractionREL (USA)Long-term value: 10* 5** mg/m³ *total dust **respirable fractionTLV (USA)Long-term value: 2 mg/m³ E; as respirable fractionEL (Canada)Long-term value: 2 mg/m³ E; as respirable fractionEV (Canada)Long-term value: 2 mg/m³ respirable1333-86-4 Carbon BlackPEL(USA)Long-term value: 3.5 mg/m³ *0.1 in presence of PAHs; See Pocket Guide Apps. A+CTLV (USA)Long-term value: 3.5 mg/m³ *0.1 in presence of PAHs; See Pocket Guide Apps. A+CTLV (USA)Long-term value: 3 mg/m³ *inhalable fractionEL (Canada)Long-term value: 3.5 mg/m³ *0.1 in presence of PAHs; See Pocket Guide Apps. A+CTLV (USA)Long-term value: 3 mg/m³ *inhalable fractionEL (Canada)Long-term value: 3.5 mg/m³ *inhalable fractionFLU(USA)see Quartz listing *respirable dust; See Pocket Guide App. ATLV (USA)Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. ATLV (USA)Long-term value: 0.025* mg/m³ *as respirable fractionEL (Canada)Long-term value: 0.025 mg/m³ *as respirable fractionEV (Canada)Long-term value: 0.015* mg/m³ *respirable fractionEV (Canada)Long-term value: 0.025 mg	1332-58-7 Kaol	IN
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ACGIH A2; IARC 1 EV (Canada) Long-term value: 0.10* mg/m ³	TLV (USA)	
	EL (Canada)	
	EV (Canada)	

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DNELs No further relevant information available. **PNECs** No further relevant information available.

Ingredients with biological limit values:

8052-42-4 Asphalt

BEI (USA)

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

Additional information: The lists valid during the making were used as basis.

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

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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	
Color	
Odor	
Odor Threshold	
Ph Value	7.0 - 8.0
Change in Condition:	
Melting point/Melting Range	
Boiling point/Boiling range	
Flash Point	
Flammability (Solid Gaseous)	
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	
Upper	Not determined
Vapor Pressure	Not determined
Density at 20° C	1.10 – 1.20 g/cm ³
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	
Kinematic	Not Determined
Other Information: No further relevant	information available





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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.

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:

Primary irritant effect:

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

On the eye. Sight initiant effect of 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:

Suspected of causing cancer.

May damage fertility or the unborn child.

Repeated dose toxicity:

May cause damage to organs through prolonged or repeated exposure. Repeated exposures may result in skin sensitivity.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):

Carc. 2, Repr. 1A

SECTION 12

ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:

The product contains materials that are harmful to the environment

- 12.2 Persistence and degradability No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxical effects:

Remark:

Due to mechanical actions of the product (e.g. agglutinations) damages may occur.

The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

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Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

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: Disposal must be made according to official regulations. **Recommendation cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14

TRANSPORTATION INFORMATION

14.1 UN-Number DOT, ADR, ADN, IMDG, IATA	Not Regulated
14.2 UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not Regulated
14.3 Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	Not Regulated
14.4 Packing group	Not Regulated
DOT, ADR, IMDG, IATA	Not Regulated
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user:	Not Applicable
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
UN "Model Regulation":	-

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SECTION 15

REGULATORY INFORMATION

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

SARA

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer:

Reference to Carbon Black is based on unbound respirable particles and is not generally applicable to product as supplied.

Reference to Titanium Dioxide is based on unbound respirable particles and is not generally applicable to product as supplied.

Reference to Crystalline Silica and/or Quartz is based on unbound respirable particles and is not generally applicable to product as supplied.

8052-42-4	asphalt
1333-86-4	carbon black
14808-60-7	quartz
13463-67-7	titanium dioxide
Chemicals known to cause reproductive toxicity for females:	

None of the ingredients are 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.

Carbopols

titanium dioxide

Carcinogenic Categories

EPA (Environmental Protection Agency) None of the ingredients is listed IARC (International Agency for Research on Cancer) 8052-42-4 Asphalt 2B 1333-86-4 Carbon Black 2B 14808-60-7 quartz 1

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2B

9003-01-4

13463-67-7

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TLV (Thresho	old Limit Value established by	y ACGIH)	
8052-42-4	Asphalt	A4	
1332-58-7	Kaolin	A4	
1333-86-4	Carbon Black	A4	
14808-60-7	quartz	A2	
13463-67-7	titanium dioxide	A4	
NIOSH-Ca (N	ational Institute for Occupati	onal Safety and Health)	
8052-42-4	Asphalt	A4	
1333-86-4	Carbon Black	A4	
14808-60-7	quartz	A2	
13463-67-7	titanium dioxide	A4	
Canada			
Canadian Do	mestic Substances List (DSL	.)	
All ingredients are listed.			
Canadian Ingredient Disclosure list (limit 0.1%)			
None of the ingredients is listed			
Canadian Ingredient Disclosure list (limit 1%)			

1333-86-4 Carbon Black

14808-60-7 quartz

Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.
- H351 Suspected of causing cancer.
- H360 May damage fertility of the unborn child.
- H400 Very toxic to aquatic life.
- R22 Harmful if swallowed.
- R23 Toxic by inhalation.
- R34 Causes burns.
- R40 Limited evidence of a carcinogenic effect.

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- R43 May cause sensitisation by skin contact.
- R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
- R60 May impair fertility.
- R61 May cause harm to the unborn child.

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

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

- END OF SDS -

