

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

Printing Date 05.18.2023

**SECTION 1** 

Revision 05.18.2023

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

# 1.1 PRODUCT IDENTIFIER/TRADE NAME: STAR FUSION MP/SS

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

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SECTION 2
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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



$\mathbf{\nabla}$	Healt	h Hazard	
Muta.	1B	H340	May cause genetic defects.
Carc.	1B	H350	May cause cancer.
Carc	2	H351	Suspected of causing cancer.
Repr.	1B	H360FD	May damage fertility. May damage the unborn child.



H411 Toxic to aquatic life with long lasting effects

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

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



May cause cancer. May cause heritable genetic damage. May impair fertility. May cause harm to the unborn child.



R43

Xi; Sensitizing

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.

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 Globally Harmonized System (GHS).



GHS07 GHS08 GHS09

Signal word Danger

#### Hazard-determining components of labeling:

Residues (Petroleum steam- cracked). Benzo[a]pyrene Chrysene Dibenzo(a,h)pyrene Carbon black

#### 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.
- H410 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P273 Avoid release to environment.

- P261 Avoid breathing mist/vapors/spray.
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P281	Use pe	rsonal 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+P3	353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin well with water/shower.
P301+P330+P3	351	IF SWALLOWED, rinse mouth. DO NOT induce vomiting.
P305+P351+P3	33	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



#### NFPA ratings (Scale 0-4)



Health = 2 Fire = 1 Reactivity = 0

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	7 quartz
50-32-8	Benzopyrene
91-20-3	Naphthalene
8052-42-4	Asphalt 🚯
8052-42-4	Pitch, Coal-Tar, High

### 2.3 Other Hazards

Results of PBT and vPvB assessment PBT-Not Applicable vPvB: Not applicable.

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# **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:

CAS: 68187-58-6	Asphalt	10-15%
EINECS: 232-490-9	PBT	
Index number: 648-055-00-5	📕 T Repr. Cat. 1 R60-61; 🔀 Xn R40	
	Carc, Cat. 3	
	Carc. 2, H351; Repr.	
	1A, H360	
CAS: 65996-93-2	Coal Tar Pitch, High Temp. PBT	10-15%
	T Carc. Cat. 2 R45	
	Carc. 1B, H350	
CAS: 1332-58-7	Kaolin	15-20%
EC number: 310-194-1	substance with a community workplace exposure limit	
CAS: 1333-86-4	Carbon Black	1-3%
EINECS: 215-609-9	Xn R40	
	Carc, Cat. 3	
	Carc. 2, H351	
CAS: 14808-60-7	quartz	3-7%
	substance with a Community workplace exposure limit	
CAS: 4719-04-4	Floranthene	≤ 2.5%
EINECS: 225-208-0	🗙 🛛 Xn R20; 🔽 N R50/53	
Index number: 613-114-00-6	Aquatic Acute 1, H400; Aquatic Chronic 1, H410 🌾	
	Acute Tox. 4, H302	
CAS: 91-20-3	naphthalene	Less than 0.1%
EINECS: 202-049-5	X Xn R22-40; 🔽 N R50/53	
Index number: 601-052-00-2	Carc. Cat. 3	
	Carc. 2, H351	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
	Acute Tox. 4, H302	
CAS: 56-55-3	Benz(a)anthracene	Less than 0.1%
EINECS: 200-280-6	🥃 T Carc. Cat. 2 R45; 🔽 N R50/53	
Index number: 601-033-00-9	&Carc. 1B, H350	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 50-32-8	benzo[a]pyrene	Less than 0.1%
EINECS: 200-028-5	😡 T Carc. Cat. 2, Muta. Cat. 2, Repr. Cat. 2 R45-46-60	
Index number: 601-032-00-3	Xi R43; 2 N R50/53	
	Muta. 1B, H340; Carc. 1B, H350; Repr. 1B, H360FD	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
	Skin Sens. 1, H317	

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<b></b>		
CAS: 218-01-9	chrysene	Less than 0.1%
EINECS: 205-923-4	T Carc. Cat. 2 R45; Muta. Cat. 3	
Index number: 601-048-00-0	🗙 Xn R68; 💆 N R50/53	
	Muta. 2, H341; Carc. 1B, H350	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 193-39-5	indeno[1,2,3-cd]pyrene	Less than 0.1%
EINECS: 205-893-2	<sup>&amp;</sup> Carc. 2, H351	
CAS: 205-82-3	benzo[j]fluoranthene	Less than 0.1%
EINECS: 205-910-3	😹 T Carc. Cat. 2 R45; 🧏 N R50/53	
Index number: 601-035-00-X	<sup>&amp;</sup> Carc. 1B, H350	
	Laguatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 189-64-0	dibenzo(a,h)pyrene	Less than 0.1%
EINECS: 205-878-0	Muta. 2, H341; Carc. 1B, H350; STOT RE 2, H373	
CAS: 207-08-9	benzo[k]fluoranthene	Less than 0.1%
EINECS: 205-916-6	🐱 T Carc. Cat. 2 R45; 월 N R50/53	
Index number: 601-036-00-5	<sup>&amp;</sup> Carc. 1B, H350	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 189-55-9	dibenzo(a,i)pyrene	Less than 0.1%
	Carc. 2, H351	
CAS: Proprietary	alkoxylated fatty amines	Less than 0.1%
EINECS: Proprietary	🔜 C R34; 🔀 Xn R22	
	<u>Skin Corr.</u> 1B, H314; Eye Dam. 1, H318	
	Aquatic Acute 1, H400	
	<sup>!</sup> Acute Tox. 4, H302; Skin Sens. 1, H317	

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.

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# 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.

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: 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.

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# **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:

50-32-8 benzo[a]pyrene		
PEL (USA)	Long-term value: 0.2 mg/m <sup>3</sup>	
	see Coal tar pitch volatiles	
REL (USA)	Long-term value: 0.1 mg/m <sup>3</sup>	
	Coal tar pitch volatile; Pocket Guide Apps. A+C	
TLV (USA)	L; BElp	
EL (Canada)	ACGIH A2; IARC 1	

#### 8052-42-4 Asphalt

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

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65996-93-2 Pit	ch, coal tar, high-temp.	
PEL (USA)	Long-term value: 0.2 mg/m <sup>3</sup>	
REL (USA)	Long-term value: 0.1* mg/m <sup>3</sup>	
	*Cyclohexane-extrble. fraction; Pocket Guide Apps. A+C	
TLV (USA)	Long-term value: 0.2 mg/m <sup>3</sup>	
	BElp	
EL (Canada)	Long-term value: 0.2 mg/m <sup>3</sup>	
	soluble aerosol; ACGIH A1; IARC 1	
EV (Canada)	Long-term value: 0.2 mg/m <sup>3</sup>	
1332-58-7 Kao	as total benzene-soluble compounds	
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	
14808-60-7 qua	artz	
PEL(USA)	see Quartz listing	
REL (USA)	Long-term value: 0.05* mg/m <sup>3</sup>	
TI) ( (10A)	*respirable dust; See Pocket Guide App. A	
TLV (USA)	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction	
EL (Canada)		
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	
91-20-3 naphth	nalene	
IOELV (EU)	Long-term value: 30 mg/m <sup>3</sup> , 10 ppm	
PEL (USA)	Long-term value: 50 mg/m <sup>3</sup> , 10 ppm	
REL (USA)	Short-term value: 75 mg/m <sup>3</sup> , 15 ppm	
	Long-term value: 50 mg/m³, 10 ppm	
TLV (USA)	Long-term value: 52 mg/m³, 10 ppm Skin; BEI	
EL (Canada)	Short-term value: 15 ppm Long-term value: 10 ppm Skin; IARC 2B	
EV (Canada)	Short-term value: 78 mg/m³, 15 ppm Long-term value: 52 mg/m³, 10 ppm	
56-55-3 benz[a]anthracene		
TLV (USA)		
	L; BElp	

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218-01-9 chrysene		
PEL (USA)	Long-term value: 0.2 mg/m³ see Coal Tar Pitch Volatiles	
REL (USA)	Long-term value: 0.1* mg/m³ *Cyclohexane-extrble. fraction; Pocket Guide Apps. A+C	
TLV (USA)	L, BElp	
EL (Canada)	IARC 2B	

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

Ingredients with biological limit values:		
65996-93-2 Pit	ich, coal tar, high-temp.	
BEI (USA)	-	
	Medium: urine	
	Time: end of shift at end of workweek	
	Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)	
56-55-3 benz[a	a]anthracene	
BEI (USA)	-	
	Medium: urine	
	Time: end of shift at end of workweek	
	Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)	
218-01-9 chrys	sene	
BEI (USA)	-	
	Medium: urine	
	Time: end of shift at end of workweek	
	Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)	
50-32-8 benzo	[a]pyrene	
BEI (USA)	-	
	Medium: urine	
	Time: end of shift at end of workweek	
	Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)	
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.

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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 Color	, ,		
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		

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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 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
2 Other Information. No further relevant	information available

9.2 Other Information: No further relevant information available

# **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.

# LD/LC50 values relevant for classification:

91-20-3 naphthalene		
	490 mg/kg (rat) 5000 mg/kg (rat)	

#### 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.

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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.

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

Carc. 2, Repr. 1A

# **SECTION 12**

ECOLOGICAL INFORMATION

# 12.1 Toxicity

Aquatic toxicity: Toxic for aquatic organisms.

- 12.2 Persistence and degradability-
- 12.3 Bio-accumulative potential-
- 12.4 Mobility in soil-
- 12.5 Results of PBT and vPvB assessment-
- 12.6 Other adverse effects:

No further relevant information available. No further relevant information available. No further relevant information available. None available

No further relevant information available.

# **SECTION 13**

DISPOSAL CONSIDERATION

#### 13.1 Waste treatment methods

#### **Recommendation:**

As supplied, this material is not a hazardous waste according to Federal Regulations (40 CFR 261). This material, however, could become a hazardous waste if chemical additions are made, or it comes in contact with a hazardous waste or otherwise altered. Under such occurrences, consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Do not allow product to reach sewage system. Must not be disposed together with household garbage. Can be burned or disposed of with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material must dispose of unused material, residues, and containers in compliance with all applicable local, state, and federal laws and regulations.

#### Uncleaned packaging:

#### **Recommendation:**

Disposal must be made according to official regulations.

# SECTION 14

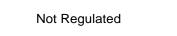
TRANSPORTATION INFORMATION

In accordance with DOT.

- 14.1 UN-Number DOT, ADR, ADN, IMDG, IATA
- 14.2 UN proper shipping name DOT, ADR, ADN, IMDG, IATA
- 14.3 Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class

Not Regulated

Not Regulated



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14.4	Packi	ing g	roup	
	DOT			

- DOT, ADR, IMDG, IATA
- 14.5 Environmental hazards: Marine pollutant:
- 14.6 Special precautions for user:
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: **UN "Model Regulation":**

# **SECTION 15**

# **REGULATORY INFORMATION**

No

Not Regulated

Not Applicable

Not applicable.

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

SARA

aphthalene
enzo[a]pyrene
-

# **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.

14808-60-7	quartz
8052-42-4	asphalt
1333-86-4	carbon black
13463-67-7	titanium dioxide
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.

# 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)

91-20-3 naphthalene

50-32-8 benzo[a]pyrene

# C, CBD

B2

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IARC (International Agency for Research on Cancer)		
14808-60-7	quartz	1
8052-42-4	Asphalt	2B
1333-86-4	Carbon Black	2B
9003-01-4	Carbopols	3
91-20-3	naphthalene	2B
50-32-8	benzo[a]pyrene	1

TLV (Threshold Limit Value established by ACGIH)			
50-32-8 benze	o[a]pyrene TLV (USA)	A1	
1332-58-7	Kaolin	A4	
14808-60-7	quartz	A2	
91-20-3	naphthalene	A4	
50-32-8	benzo[a]pyrene	A2	

NIOSH-Ca (National Institute for Occupational Safety and Health)	
14808-60-7	quartz
50-32-8	benzo[a]pyrene

#### Canada

#### Canadian Domestic 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
 guartz

#### 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

**15.1 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.
H340	May cause genetic defects.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.

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- 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.
- 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)

concerning the Inte	ernational 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, Category1

#### Sources

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- END OF SDS -

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