# **SAFETY DATA SHEET**

#### SOLAR SHIELD

### **Section 1. Identification**

Product name	: SOLAR SHIELD Fluid Applied, Ceramic Hollow Microspheres Roof Coatings
Product code	
Other means of identification Product type	: Not Available : Liquid
Relevant identified uses of t	ne substance or mixture and uses advised against
Paint or paint related material.	
Supplier/Manufacturer	: Delta Coatings & Sealants Inc 2000 Argentia Road, Suite# 400, Plaza# 3, Mississauga, ON. L5N1V9.
Emergency telephone number of the company	: US / Canada: 1-647-868-3330 : US / Canada: 1-647-868-3330
Product Information Telephone Number Transportation Emergency	: US / Canada: (647) 868-3330
Telephone Number	Available 24 hours and 365 days a year

## Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the	: SKIN SENSITIZATION - Category 1
substance or mixture	TOXIC TO REPRODUCTION - Category 2
GHS label elements	
Hazard pictograms	
	: Warning
Signal word	: May cause an allergic skin reaction.
Hazard statements	Suspected of damaging fertility or the unborn child.
Precautionary statements	: Read label before use. Keep out of reach of children. If medical advice is needed, have
General	product container or label at hand.
	: Obtain special instructions before use. Do not handle until all safety precautions have
Prevention	been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid breathing vapor. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
Date of issue/Date of revision SOLAR SHIELD Fluid Ap	: 2/4/2024 Date of previous issue : 9/21/2023 Version : 10.01 1/12 oplied, Ceramic Hollow Microspheres Roof Coatings

### Section 2. Hazards identification

Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
	Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
Hazards not otherwise classified	: None known.

### Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

#### **CAS number/other identifiers**

Ingredient name	% by weight	CAS number
Bis(pentamethyl-4-piperidyl)sebacate	≤0.3	41556-26-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

### Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact	mediately flush eyes with plenty of water, occasionally liftir elids. Check for and remove any contact lenses. Continue nutes. Get medical attention if irritation occurs.	• • • •
Inhalation	move victim to fresh air and keep at rest in a position com t breathing, if breathing is irregular or if respiratory arrest of spiration or oxygen by trained personnel. It may be danged to give mouth-to-mouth resuscitation. Get medical attent recovery position and get medical attention immediately. It osen tight clothing such as a collar, tie, belt or waistband.	occurs, provide artificial rous to the person providing ion. If unconscious, place
Skin contact	ash with plenty of soap and water. Remove contaminated ntaminated clothing thoroughly with water before removing ntinue to rinse for at least 10 minutes. Get medical attent mplaints or symptoms, avoid further exposure. Wash cloth bes thoroughly before reuse.	it, or wear gloves. ion. In the event of any
Ingestion	ash out mouth with water. Remove dentures if any. If mat d the exposed person is conscious, give small quantities of posed person feels sick as vomiting may be dangerous. If less directed to do so by medical personnel. If vomiting of ot low so that vomit does not enter the lungs. Get medical ything by mouth to an unconscious person. If unconscious d get medical attention immediately. Maintain an open air ch as a collar, tie, belt or waistband.	f water to drink. Stop if the Do not induce vomiting ocurs, the head should be attention. Never give s, place in recovery position

Most important symptoms/effects, acute and delayed Potential acute health effects

Date of issue/Date of rev	ision :	2/4/2024	Date o	f previous issue	: 9/21/2023	Version	: 10.01
SOLAR SHIELD	Fluid Applied, 0	Ceramic Hol	low	Microspheres Roof	Coatings		

2/12

### Section 4. First aid measures

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protec	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively or if water-insoluble absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Date of issue/Date of rev	ision	: 2/4/2024	Date o	f previous issue	:9/21/2023	Version	: 10.01	4/12
SOLAR SHIELD	Fluid Applied,	Ceramic Ho	llow	Microspheres Roof				

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits (OSHA United States)**

Ingredient name	CAS #	Exposure limits
Bis(pentamethyl-4-piperidyl)sebacate	41556-26-7	None.
Occupational exposure limits (Canada)		
Ingredient name	CAS #	Exposure limits
None.		
Occupational exposure limits (Mexico)	_	
	CAS #	Exposure limits

#### **Biological exposure indices (United States)**

No exposure indices known.

None.

#### **Biological exposure indices (Canada)**

No exposure indices known.

#### **Biological exposure indices (Mexico)**

No exposure indices known.

Appropriate engineering controls Environmental exposure controls	<ul> <li>If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.</li> <li>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.</li> </ul>
Individual protection measure	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

### Section 8. Exposure controls/personal protection

Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: 9.5
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: 100°C (212°F)
Flash point	: Closed cup: Not applicable.
Evaporation rate	: 0.09 (butyl acetate = 1)
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.
Vapor pressure	: 2.3 kPa (17.5 mm Hg)
Relative vapor density	: 1 [Air = 1]
Relative density	: 1.27
Solubility(ies)	÷

Media	Result
cold water	Partially soluble
Partition coefficient: n- : Not octanol/water	applicable.
Auto-ignition temperature : Not	available.
Decomposition temperature : Not	available.
Viscosity : Kir	nematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)
	t applicable. 95 kJ/g

### Section 10. Stability and reactivity

Reactivity Chemical stability: No specific test data related to reactivity available for this product or its ingredients.Possibility of hazardous reactions: The product is stable. : Under normal conditions of storage and use, hazardous reactions will not occur.Conditions to avoid: No specific data.Incompatible materials: No specific data.Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
Chemical stability: No specific test data related to reactivity available for this product or its ingredients.Possibility of hazardous reactions: The product is stable. : Under normal conditions of storage and use, hazardous reactions will not occur.Conditions to avoid: No specific data.		•
Chemical stability       : No specific test data related to reactivity available for this product or its ingredients.         Possibility of hazardous reactions       : The product is stable.         : Under normal conditions of storage and use, hazardous reactions will not occur.	Incompatible materials	: No specific data.
Chemical stability       : No specific test data related to reactivity available for this product or its ingredients.         Possibility of hazardous reactions       : The product is stable.	Conditions to avoid	: No specific data.
Chemical stability       : No specific test data related to reactivity available for this product or its ingredients.         Possibility of hazardous       : The product is stable.		: Under normal conditions of storage and use, hazardous reactions will not occur.
	-	: The product is stable.
	-	: No specific test data related to reactivity available for this product or its ingredients.

### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

#### Information on the likely : Not available. routes of exposure

#### Potential acute health effects

Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	;	May cause an allergic skin reaction.

Date of issue/Date of re-	vision	: 2/4/2024	Date of	of previous issue	:9/21/2023	Version	: 10.01	7/12
SOLAR SHIELD	Fluid Applie	d, Ceramic H	Hollow	Microspheres Ro	of Coatings			

# Section 11. Toxicological information

Ingestion	: No known significant effects or critical hazards.
Symptoms related to the r	physical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate ef	fects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health e	ffects
Not available.	
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.

Numerical measures of toxicity Acute toxicity estimates Not available.

Version : 10.01

<sup>8/12</sup> 

### Section 12. Ecological information

Not available. Persistence and degradability Not available. **Bioaccumulative potential** 

available.

Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Section 14. Transport information									
Special precautions for user	<ul> <li>Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.</li> </ul>								
Transport in bulk according to IMO instruments	: Not available.								
	Proper shipping name : Not available.								

### Section 15. Regulatory information

**TSCA 5(a)2 proposed significant new use rules**: 2-Methyl-4-isothiazolin-3-one; reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

#### SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet, where applicable.

#### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

#### International regulations

**Montreal Protocol** 

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

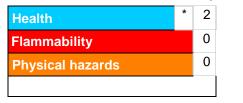
Not listed.

#### **International lists**

Australia inventory (AIIC): Not determined.
 China inventory (IECSC): Not determined.
 Japan inventory (CSCL): Not determined.
 Japan inventory (ISHL): Not determined.
 Korea inventory (KECI): Not determined.
 New Zealand Inventory of Chemicals (NZIoC): Not determined.
 Philippines inventory (PICCS): Not determined.
 Taiwan Chemical Substances Inventory (TCSI): Not determined.
 Thailand inventory: Not determined.
 Turkey inventory: Not determined.
 Vietnam inventory: Not determined.

### Section 16. Other information

#### Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

#### Procedure used to derive the classification

Classification	Justification
	Calculation method Calculation method

<u>History</u> Date of printing	: 2/4/2024 : 2/4/2024
Date of issue/Date of revision Date of previous issue Version Key to abbreviations	<ul> <li>9/21/2023</li> <li>10.01</li> <li>ATE = Acute Toxicity Estimate BCF = Bio concentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>Log Pow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>N/A = Not available</li> <li>SGG = Segregation Group UN = United Nations</li> </ul>

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility

Date of issue/Date of re	vision	: 2/4/2024	Date	of previous issue	:9/21/2023	Version	: 10.01	11/12
SOLAR SHIELD	Fluid Applied	l, Ceramic Ho	ollow	Microspheres I	Roof Coatings			

### Section 16. Other information

of user. All materials may present unknown hazards and should be used

with caution. Although certain hazards are described herein, we cannot

guarantee that these are the only hazards that exist