

# Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard.

## Shellspen Suspension Agent

QUICK IDENTIFIER Common Name: On label

### SECTION 1 -

Manufacturer's Name:	SHELLSPEN INTERNATIONAL, INC.	Emergency Telephone No.	(941) 951-2545
Address:	P.O. Box 1741	Fax no.	(941) 496-7575
City, State, ZIP	Venice, FL 334284-1741		
Prepared by:	Sean F. Colson	Date Prepared:	March 5, 2008

### SECTION 2- HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	% (optional) /	OSHA PEL mg/m3 /	TLV mg/m3 /	Cas. No.
Silicon Dioxide Silica fused		0.1* 0.3**	0.1* 10.0**	60676-86-0
Calcined Bauxite A glass and mullite matrix containing @ 15% cristobalite	@ 85	0.5* 15.0**	5.0* 10.0**	1302-93-8
Silica (cristobalite)	<0.75	0.05* 0.15*	0.05* 5.0**	14464-46-1
Chrome Oxide		.500	.500	1308-38-9
Chrome (III) Compounds (AS Cr)	<.001	TWA	TWA	
Iron Oxide (Fe2 O)	<.002	TWA	TWA	
Mono-Di-, and tri-tallow glycerides, hydrogenated	1 (wt)	N/A	N/A	068308543
Bis (polyoxyethylene), 2-Ethylhexyl phosphate	.05 (wt)	Not established	Not established	68460-10-6
Dipotassium Fluorescein (c20 H1205 - 2K)	<5	Not established	Not established	6417-85-2

### SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point / Liquid 203 degrees F / Solid N/A	Specific Gravity (H2 O = 1) / Liquid 1.02-1.30 / Solid 2.64
Vapor Pressure (mm Hg) N/A	Vapor Density (Air = 1) N/A
Solubility in Water / Liquid Greater than 90% / Solid <0.5%	Reactivity in Water N/A
Appearance and Odor / Liquid Green Fluorescent / Orange no distinguishable odor	
/ Solid Gray powder with white, green, & red specs, odorless	Melting Point N/A

### SECTION 4 - FIRE & EXPLOSION DATA

Flash Point / Method Used (closed cup) / Liquid 204.8 degrees / P.M.C.C. Solid N/A	
Flammable Limits in Air % by Volume LEL Lower N/A	Auto-Ignition Temperature N/A UEL upper N/A
Extinguisher Media WATER, FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG	
Special Fire Fighting Procedures USE SELF-CONTAINED BREATHING APPARATUS / DO NOT BREATH FUMES	
Unusual Fire and Explosion Hazards This product is not defined as flammable or combustible. However, it may decompose under fire conditions to give off toxic materials such as phosphorus oxides and flammable organic substituents. This product is self-extinguishing once the source of ignition is removed.	

### SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability / Stable	Conditions to Avoid Breathing Dust / Skin Contact	Wear rubber gloves and use NIOSH/MSHA/OSHA approved respirator.
Incompatibility (Materials to Avoid) / Liquid Under wet alkaline or acidic conditions, prolonged storage at elevated temperatures should be avoided	Solid / N/A	
Hazardous Decomposition Products	Under fire conditions this product may support combustion and decompose to give off flammable alkene and phosphoric oxides as well as carbon oxides. This product is self-extinguishing once the source of ignition is removed. It is not sensitive to static discharge.	
Hazardous Polymerization	Will Not Occur	
Conditions to Avoid	Breathing Dust / Skin Contact	Wear rubber gloves and OSHA approved respirator.

### SECTION 6 - HEALTH HAZARDS

Acute and Chronic / Inhalation of fumes or vapors is irritating to mucous membranes. Prolonged exposure to respirable crystalline silica may cause delayed (chronic) lung injury (silicosis, pneumoconiosis). Acute or rapidly developing silicosis may occur in a short period of time in heavy exposure in certain occupations such as sandblasters. Silicosis is a form of disabling pulmonary fibrosis which can be progressive and may lead to death. There is evidence that individuals with silicosis may also experience incidences of scleroderma (immune system disorder), tuberculosis and nephrotoxicity (kidney lesions).
Skin Contact - ACUTE: Skin contact may cause severe irritation. Eye Contact - ACUTE: Eye contact may cause severe irritation.
Ingestion - ACUTE: This product has a low order of toxicity. Ingestion may cause digestive tract irritation, vomiting and diarrhea.
Signs and Symptoms of Exposure: NAUSEA AND IRRITATION. BREATHE FRESH AIR / WASH SKIN CONTACT WITH PLENTY OF WATER
Medical Conditions Generally Aggravated by Exposure N/A
Chemical Listed as Carcinogen or Potential Carcinogen NTP Yes IARC Yes OSHA Not Listed
Emergency and First Aid Procedures IF SPILLED, AND/OR SKIN CONTACT: WASH AFFECTED AREA WITH PLENTY OF SOAP AND WATER. CONTACT PHYSICIAN. USE DUSTLESS METHODS TO REMOVE DRY POWDER. IF SYMPTOMS OF DISCOMFORT OR IRRITATION OCCUR DUE TO MATERIAL, REMOVE AFFECTED PERSONS TO FRESH AIR. IF MATERIAL ENTERS EYES, FLUSH WITH PLENTY OF WATER. IF DISCOMFORT OR IRRITATION PERSISTS, CONSULT A PHYSICIAN.



## **SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES**

Precautions to be Taken in Handling and Storage: Keep away from heat, sparks and open flames. Avoid contact with eyes and skin. Avoid inhalation of vapors and mists. Personnel handling this product should wash thoroughly after contact with this product. Store away from foodstuffs or animal feed. Containers should be stored in a cool, dry, well-ventilated area away from flammable or incompatible materials and sources of heat or flame. Exercise due caution to prevent damage or leakage from the container. Do not store this product at temperatures above 120F (49C).

Other Precautions: Wear NIOSH/MSHA/OSHA approved respirator for the handling of silica dusts, wear rubber gloves, and eye protection. Use dustless systems for handling, storage and clean up so that airborne dust dose not exceed the PEL. Use adequate ventilation and dust collection. Practice good housekeeping. Do not permit dust to collect on walls, floors sills, ledges, machinery or equipment. Maintain, clean and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash and vacuum clothing which has become dusty.

See OSHA Hazard Communication Rule 29 CFR Sections 1910.1200, 1915.99, 1917.28, 1918.90, 1926.59 and 1928.21, and state and local worker or community "right to know" laws and regulations. We recommend that smoking be prohibited in all areas where respirators must be used. WARN YOUR EMPLOYEES (AND CUSTOMERS-USERS IN CASE OF RESALE) BY POSTING AND OTHER MEANS OF THE HAZARD AND OSHA PRECAUTIONS TO BE USED. PROVIDE TRAINING FOR YOUR EMPLOYEES ABOUT THE OSHA PRECAUTIONS.

See also American Society for Testing and Materials (ASTM) Standard Practice E1132-86, "Standard Practice for Health Requirements Relating to Exposure to Quartz Dust."

Steps to be Taken in Case Material is Released or Spilled: Wear NIOSH/MSHA/OSHA approved respirator for handling of Silica dusts, wear rubber gloves and eye protection and full protective clothing. Flush spill area with plenty of water.

Waste Disposal Methods (Consult federal, state, and local regulations): Dispose in accordance with all applicable federal, state and local E.P.A. regulations. Observe all environmental regulations.

## **SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES**

Respiratory Protection: Wear NIOSH/MSHA/OSHA approved respirator for handling of Silica dusts when working with this material.

Ventilation: Use sufficient local exhaust to reduce the level of respirable dust to the PEL. See ACGIH "Industrial Ventilation, A Manual Recommended Practice," the latest edition. Local Exhaust: Use dustless systems for handling, storage and clean up so that airborne dust dose not exceed the PEL.

Protective Gloves: Rubber Gloves Eye Protection: Safety Goggles

Other Protective Clothing: Boots, aprons or chemical suits should be used when necessary to prevent skin contact.

Work/Hygienic Practices: Avoid inhalation and ingestion of this material, avoid eye contact. Avoid creating dust.

## **SECTION 9 - OTHER INFORMATION**

NFPA Hazard Rating	Health: 1	Flammability: 1	Reactivity: 0
HMIS Hazard Rating	Health: 3	Flammability: 1	Reactivity: 0

Personal Protection: Use NIOSH/MSHA/OSHA approved respirator.

The information set forth herein has been gathered from standard reference materials and/or Shellspen Int. Inc. test data and is, to the best knowledge and belief of Shellspen Int. Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones which exist. Shellspen Int. Inc. makes no warranties, express or implied, with respect to the use of such information or the use of the specific material identifies here in combination with any other material or process, and assumes no responsibility therefore.