Print Date: 5/31/2015

PRODUCT NAME: 8732

COLOR: BLACK REVISION DATE: May 31st 2015

1. PRODUCT AND COMPANY IDENTIFICATION

Company Name: ESP Company

Product Classification: Silicone Sealant Address: 27 South Perry St

General Description: Silicone elastomer Vandalia OH 45377

Physical Form: Paste

Color: Clear Phone Number: 937.898.0391

Odor: Acetic acid odor

NFPA PROFILE: Health -1 Flammability -1

Note: NFPA = National Fire Protection Association

Instability/Reactivity - 0

2. HAZARDS IDENTIFICATION

Physical Hazards: Not classified

Health Hazards: Reproductive toxicity (fertility) Category 2

Environmental Hazards: Not classified **OSHA Defined Hazards:** Not classified

• Hazards not stated here are "Not Classified", "Not Applicable" or "Classification not

possible".

GHS Label Elements

Signal Word: Warning



Hazard Statement:

Precautionary

Suspected of damaging fertility. May cause eye/lung/skin irritation.

Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Wear protective gloves /

protective clothing / eye protection / face protection. Wash well after

handling. Contaminated work clothing should not be allowed out of

work place.

SKIN: Wash with plenty of soap and water. If skin irritation or rash Response:

occurs: Get medical attention / advice. Get medical attention / advice

if you feel unwell.

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye

irritant persists get medical attention / advice.

If exposed or concerned: get medical attention or advice. Take off

contaminated clothing and wash it before reuse.

Storage: Store locked up.

Disposal: Disposal of contents / container in accordance with local / regional

/state / federal and international regulations.

Hazard(S) not Otherwise

classified (HNOC):

None known.

Supplemental None known.

Information:

Substance(s) formed

under the conditions of

following compounds: Acetic acid

use:

The following material is embedded in the product and not available

as respirable dusts. When used as intended or as supplied, the

This product reacts with water, moisture or humid air to evolve

product will not pose hazards. Titanium oxide.

HMIS (Ratings): Health: 1

> Flammability: 1 Physical hazard: 0

3. COMPOSITION/INGREDIENTS **Mixtures**

Hazardous Ingredients

Chemical Name	CAS Number	%
Ethyltriacetoxysilane	17689-77-9	1 – 5
Methylacetoxysilane	4253-34-3	1 – 5
Titanium oxide	13463-67-7	< 1
Distillates (petroleum), hydrotreated middle	64742-46-7	1 – 7
Octamethylcyclotetrasiloxane (impurity)	556-67-2	< 1

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4. FIRST AID MEASURES

Inhalation: Remove to fresh air. Call a physician if symptoms develop or persist.

Skin Contact: Wash off with soap and plenty of water. For minor skin contact, avoid

spreading material on unaffected skin. If skin irritation or rash occurs:

get medical attention / advice. Take off contaminated clothing and

wash before use.

Eyes Contact: Immediately flush with plenty of water for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical attention if irritation developed or persists.

Ingestion: Wash out mouth. Get medical attention immediately. **Most Important** Direct contact with eyes may cause temporary irritation.

symptoms / effects, acute and delayed:

Indication of immediate Treat Symptomatically.

Medical attention and Special treatment

Needed:

General Information: If exposed or concerned: Get medical advice / attention. Ensure that

medical personnel are aware materials involved and take precautions

to protect themselves. Wash contaminated clothing before reuse.

5. FIRE FIGHTING MEASURES

Suitable extinguishing Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2

media:

Unsuitable extinguishing None known.

media:

Specific hazards arising By heating and fire, harmful vapors / gases may be formed.

from the chemical:

Specific protective equipment and

Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots and self-contained

precautions for breathing apparatus.

firefighters:

Fire Fighting equipment Move containers from fire area if you can do so without risk.

/ Instructions:

General fire hazards: No unusual fire or explosion hazards noted.

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6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch or walk through spilled material. Ensure adequate ventilation. Wear appropriate personal protective equipment.
Methods and materials for containment and cleaning up:	Eliminate sources of ignition. Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for reuse.
Environmental precautions:	Prevent further leakage or spillage if safe to do so.

7. HANDLING AND STORAGE		
Precaution for safe handling:	Provide adequate ventilation. Use care in handling/storage. Obtain special instructions before use. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Pregnant and breastfeeding women must not handle this product. Do not breathe mist or vapor. Avoid contact with eyes. Avoid contact with skin. Avoid long term exposure.	
Conditions for safe storage, Including any incompatibilities	Stored locked up. Keep container tightly closed. Keep out of reach of children. Store in a cool dry place out of direct sunlight. Keep in original container.	

Occupational exposure limits			
US. OSHA Table Z-1 Limits for Ai	r Contaminants (29 CFR 191	0.1000)	
Components	CAS #	Туре	Value
Titanium oxide	13463-67-7	PEL	15 mg/m3
Decomposition			
Distillates (petroleum)	64742-46-7	TWA (Mist)	5 mg/m3
hydrotreated middle			
Acetic acid	64-19-7	PEL	25 mg/m3
			10 ppm

Components				
Titanium dioxide	13463-67-7	TWA	10 mg/m3	
Decomposition				
Acetic acid	64-19-7	STEL	15 ppm	
		TWA	10 ppm	
US. NIOSH: Pocket Guide to Chen	nical Hazards			
Decomposition				
Acetic acid	64-19-7	STEL	37 mg/m3	
			15 ppm	
		TWA	25 mg/m3	
			10 ppm	
Distillates (petroleum)	64742-46-7	TWA (Mist)	5mg/m3	
hydrotreated middle		ST (Mist)	10mg/m3	
Biological limit values:	No biological exposure limits for the ingredient(s).			
Appropriate engineering	Provide adequate general	and local exhaust. Pr	ovide eyewas	
controls:	station. Pay attention to v	station. Pay attention to ventilation such as local exhaust,		
	mechanical and or / door	open for at least 24 h	ours after	
	applications.			
Individual protection measure	es such as personal protective of	equipment.		
Eye / Face protection:	Tightly sealed safety glass	es according to EN 16	56.	
Skin / Hand protection:	Wear protective gloves.			
Skiii / Hallu protection.	Wear suitable protective clothing.			
Other:	Wear suitable protective of	clothing.		
· •	Wear suitable protective or If airborne concentrations		able exposur	
Other:		are above the applic	•	
Other:	If airborne concentrations	are above the applic d respiratory protect	ion.	
Other: Respiratory protection:	If airborne concentrations limits, use NIOSH approve	are above the applic d respiratory protect	ion.	
Other: Respiratory protection:	If airborne concentrations limits, use NIOSH approve Wear appropriate therma	are above the applic d respiratory protect I protective clothing,	ion. when	
Other: Respiratory protection: Thermal hazards:	If airborne concentrations limits, use NIOSH approve Wear appropriate therma necessary.	are above the appliced respiratory protect I protective clothing, Avoid contact with ski	ion. when in. When usin	
Other: Respiratory protection: Thermal hazards: General Hygiene	If airborne concentrations limits, use NIOSH approve Wear appropriate therma necessary. Avoid contact with eyes. A	are above the applic d respiratory protect I protective clothing, Avoid contact with ski e. Keep away from fo	ion. when in. When usin od or drink.	
Other: Respiratory protection: Thermal hazards: General Hygiene	If airborne concentrations limits, use NIOSH approve Wear appropriate therma necessary. Avoid contact with eyes. A do not eat, drink or smoke	are above the appliced respiratory protect I protective clothing, Avoid contact with skips. E. Keep away from for and immediately af	ion. when in. When usin od or drink. ter handling t	
Other: Respiratory protection: Thermal hazards: General Hygiene	If airborne concentrations limits, use NIOSH approve Wear appropriate therma necessary. Avoid contact with eyes. A do not eat, drink or smoke Wash hands before breaks	are above the appliced respiratory protect I protective clothing, Avoid contact with skips. Keep away from for sand immediately affork clothing should n	ion. when in. When usin od or drink. ter handling t ot be allowed	

9. PHYSICAL/CHEMICAL CHARAC	CTERISTICS
Appearance	
Form:	Paste
Color:	Black
Odor:	Acetic acid odor

Odor Threshold:

Not available

Not available

pH: Not availableMelting point / freezing point: Not availableInitial boiling point and boiling range: Not available

Flash Point: 141.8 °F (> 96 °C) Closed cup

Evaporative rate: < 1 (Butyl Acetate = 1)

Flammability (solid, gas): Not applicable

Upper / Lower flammability or explosive limits:

Flammability limit – lower (%): No data Flammability limit – upper (%): No data Explosive limit – Lower (%): Not available Explosive limit - Upper (%): Not available Negligible (25°C) Vapor pressure: Vapor density: > 1 (air=1) 1.04 (25 °C) **Relative density:** Solubility (water): Not soluble **VOC Content:**

VOC Content:Partition coefficient:
Not applicable

(n-octanol / water)

Auto-ignition temperature:No dataDecomposition temperature:Not availableViscosity:Not applicableMolecular weight:Not applicable

10. STABILITY AND REACTIVITY

Reactivity No hazardous reaction known under normal conditions of use,

storage and transport.

Chemical stability Stable at normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

Reactions

Conditions to avoid None known.

Incompatible materials Strong oxidizing agents. Water and moisture.

Hazardous decomposition This product reacts with water, moisture, or humid air to evolve

products: following compounds. Acetic acid.

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition

product: Carbon dioxides and traces of incompletely burned carbon

compounds. Silicon dioxide. Formaldehyde.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion:Expected to be a low ingestion hazard.Inhalation:Prolonged inhalation may be harmful.

Skin contact:

Eye contact:

No adverse effects due to skin contact are expected.

Direct contact with eyes may cause temporary irritation.

Symptoms related to the

Direct contact with eyes may cause temporary irritation.

physical, chemical, and toxicological characteristics:

Information on toxicological effects

Acute toxicity
Toxicological data
Decomposition

CAS # Species Test Results

Acetic acid 64-19-7

Acute Dermal

LD50 Rabbit 1060 mg/kg

Inhalation

LC 50 Guinea 5000 ppm, 1 hours

Pig

Mouse 5620 ppm, 1 hours

Rat 11.4 mg/l, 4hours

Oral

LD50 Mouse 4960 mg/kg

Rabbit 1200 mg/kg

Rat 3.31 g/kg

Distillates (petroleum)

hydrotreated middle

Oral Rat > 5,000 mg/kg

Inhalation

LC 50 Rat 1.78 mg/l, 4 hours

Dermal

Rat > 2,000 mg/kg

Skin corrosion / irritation: Causes severe skin burns and eye damage. (Acetic acid)

Skin-Rabbit: 500 mg/24hr.MILD (Octamethylcyclotetrasiloxane)

Serious eye damage/eye irritation: Causes serious eye damage. (Acetic acid)

Eye - Rabbit: MILD (Octamethylcycotetrasiloxane)

Respiratory Sensitization: Not available.

Skin Sensitization:

Germ Cell Mutagenicity:

Carcinogenicity:

IARC Monographs, Overall Evaluation of Carcinogenicity.
OSHA Specifically

Regulated Substances (29 CFR

1910.1001-1050):

Reproductive Toxicity:

No evidence of sensitization (Octamethylcycotetrasiloxane)

Negative (Bacteria) (Octamethylcycotetrasiloxane)

The following material is embedded in the product and not available as respirable dusts. When used as intended or as supplied, the product will not pose hazards. Titanium oxide.

Titanium oxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

Not listed

Octamethylcyclotetrasiloxane administered to rats by whole body inhalation at concentrations of 500 and 700 ppm for 70 days prior to mating, through mating, gestation and lactation resulted in decreases in live litter size. Additionally, increases in the incidence of deliveries of offspring extending over an unusually long time period (dystocia) were observed at these concentrations. Statistically significant alterations in these parameters were not observed in the lower concentrations evaluated (300 and 70 ppm). In a previous range-finding study, rats exposed to vapor concentrations of 700 ppm had decreases in the number of implantation sites and live litter size. The significance of these

findings to humans is not known.
(Octamethylcyclotetrasiloxane)

Specific target organ toxicity – single exposure:

Specific target organ toxicity – repeated exposure:

Not available

Repeated inhalation or oral exposure of mice and rats to Octamethylcycotetrasiloxane produced an increase in liver size. No gross histopathological or significant clinical chemistry effects were observed. An increase in liver metabolizing enzymes, as well as a transient increase in the number of normal cells (hyperplasia) followed by an increase in cell size (hypertrophy) were determined to be the underlying causes of the liver enlargement. The biochemical mechanisms producing these effects are highly sensitive in rodents, while similar mechanisms in humans are insensitive. A two year combined chronic and carcinogenicity assay was conducted on Octamethylcyclotetrasiloxane. Rats were exposed by whole-body vapor inhalation 6hrs /day, 5 days a week for up to 104 weeks to 0, 10, 30, 150 or 700 ppm of Octamethylcyclotetrasiloxane. The increase in incidence of (uterine) endometrial cell hyperplasia and uterine adenomas

(benign tumors) were observed in female rats at 700 ppm. Since

these effects only occurred at 700 ppm, a level that greatly

exceeds typical workplace or consumer exposure, it is unlikely that industrial, commercial or consumer uses of products containing Octamethylcyclotetrasiloxane would result in a significant risk to

humans. (Octamethylcyclotetrasiloxane)

Aspiration hazard: The substance or mixture is known to cause human aspiration

toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard. Distillates (petroleum), hydrotreated

middle

Chronic effects: Prolonged inhalation may be harmful. Prolonged exposure may

cause chronic effects.

Further Information: This product reacts with water, moisture or humid air to evolve

following compounds: Acetic acid.

12. ECOLOGICAL CONSIDERATIONS

Ecotoxicity

Octamethylcyclotetrasiloxane: May cause long lasting harmful effects to aquatic life.

Components Species Test Results

Titanium oxide (CAS 13463-67-7)

Aquatic

Crustacea EC50 Water Flea (Daphnia > 1000 mg/l, 48 hours

magna)

Fish LC50 Mummichog (Fundulus > 1000 mg/l, 96 hours

Heteroclitus)

Decomposition

Acetic acid (CAS 64-19-7) Aquatic

Crustacea EC50 Water flea (Daphnia 65 mg/l, 48 hours

Magna)

Fish LC50 Bluegill (Leponis 75mg/l, 96 hours

Macrochirus)

Persistence and degradability: Not available.

Bioaccumulative potential: Bio concentration Factor (BCF) / (Flathead minnow): 12400

Octamethylcyclotetrasiloxane.

Mobility in Soil: Not available.

Other adverse effects: Not available

13. DISPOSAL CONSIDERATIONS

Can be land-filled for cured product or burned in a chemical incinerator equipped with an afterburner and scrubber. Do not dispose the emptied container unlawfully. Observe all federal, state & local laws.

14. TRANSPORT INFORMATION

DOT: Not regulated as dangerous good. **IATA:** Not regulated as dangerous good. **IMDG:** Not regulated as dangerous good.

Transport in bulk according to This product is not intended to be transported in bulk.

Annex II of MARPDL 73/78 and

The IBC Code:

15. REGULATORY INFORMATION

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) SARA 313 (TRI reporting)

US State Regulations

Massachusetts: Substance List:

Titanium oxide (CAS 13463-67-7)

New Jersey Worker and Community Right to Know Act:

Titanium oxide (CAS 13463-67-7)

- Pennsylvania Worker and Community Right to Know Act:

Titanium oxide (CAS 13463-67-7)

- Rhode Island RTK: Not regulated.
- **California Proposition 65:** The following material is embedded in the product and not available as respirable dusts. When used as intended or as supplied, the product will not pose hazards.
- US California Proposition 65 CRT: Listed date / Carcinogenic substance

Titanium oxide (CAS 13463-67-7) Listed: September 2, 2011

International Inventories		
Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non Domestic Substances (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemicals	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
United States	Toxic Substances Control Act (TSCA) Inventory	Yes

16. OTHER INFORMATION

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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