

# SAFETY DATA SHEET

Print Date: 05/10/2022

<b>PRODUCT NAME:</b> SPRAYOMER® High Performance Adhesive – Clear HPA11	<b>REVISION DATE: 05/10/2022</b>
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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Commercial Product Name:** SPRAYOMER® High Performance Adhesive

**Product Classification:** RTV Silicone Sealant

**Manufacturer:**

GRF Comm Provisions of Nevada, Inc.

2505 Anthem Village Dr., E-144

Henderson, NV 89052

PHONE: 702-434-7984

**General Description:** Silicone elastomer

**Physical Form:** Paste

**Color:** Clear

**Odor:** Oxime odor

**NFPA PROFILE:** Health – 2      Flammability – 1      Instability/Reactivity - 0

**Note:** NFPA = National Fire Protection Association

## 2. HAZARDS IDENTIFICATION

<b>Physical Hazards:</b>	Not classified	
	Serious eye damage / eye irritant	Category 2
	Sensitization, skin	Category 1
	Reproductive Toxicity (fertility)	Category 2
	Specific Target organ toxicity, Repeated exposure	Category 2 (Cardiovascular / Hematological: Hematopoiesis)

**Environmental Hazards:** Not classified

**OSHA Defined Hazards:** Not classified

- Hazards not stated here are “Not Classified”, “Not Applicable” or “Classification not possible”

## SAFETY DATA SHEET

### GHS Label Elements

Signal Word:

Warning



Hazard Statement:

Causes eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility. May cause damage to organs (Cardiovascular / Hematological: hematopoiesis) through prolonged or repeated use.

Precautionary

Statement:

Prevention:

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. Do not breathe dust / fume / gas / mist / vapors / spray. Wash well after handling. Contaminated work clothing should not be allowed out of work place.

Response:

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

None known.

Substance(s) formed under the conditions of use:

This product reacts with water, moisture or humid air to evolve following compounds. Methylethylketoxime.

HMIS (Ratings):

**Health: 2**

**Flammability: 1**

**Physical hazard: 0**

### 3. COMPOSITION/ INGREDIENTS

#### Mixtures

**Chemical Name**

Methyloximesilane\*

Vinyloximesilane\*

Alkoxysilane\*

Methylethylketoxime (impurity)

Octamethylcyclotetrasiloxane (impurity)

- Designates that a specific chemical identity and or purity is withheld as a trade secret.

### 4. FIRST AID MEASURES

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

**Skin Contact:** Wash off with soap and plenty of water. Remove contaminated clothing and shoes. If spreading material on unaffected areas, wash immediately. Get medical attention / advise physician. Wash before use.

**Eyes Contact:** Immediately flush with plenty of water. Remove contact lenses, if present and do not increase the amount of water entering the eye. Get medical attention if irritation persists.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Get medical attention immediately.

**Most Important symptoms / effects, acute and delayed:** Dermatitis. Rash. Severe eye irritation, stinging, tearing, redness, swelling. Allergic skin reaction. Prolonged exposure may cause skin irritation.

**Indication of immediate medical attention and Special treatment Needed:** Treat Symptomatically.

**General Information:** Product Name: SPRAYOMER® High Performance Adhesive HPA11  
If exposed or concerned: Get medical attention. If medical personnel are aware of the product involved, they may be able to provide more effective treatment.

## 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Water fog. Foam. Dry chemical p

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** By heating and fire, harmful vapors and oxides (corrosive).

**Specific protective equipment and precautions for firefighters:** Firefighters must use standard protective equipment including a fire retardant coat, helmet, gloves, and a self-contained breathing apparatus.

**Fire Fighting equipment / Instructions:** Move containers from fire area if possible.

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

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Keep unnecessary personnel away. Advise personnel if significant spillages occur. Do not walk through spilled material. Enter spill area only if wearing appropriate personal protective equipment.

**Methods and materials for containment and cleaning up:** Eliminate sources of ignition.  
**Large Spills:** Dike the spilled material to prevent spreading. Cover with plastic sheet to prevent evaporation. Use material like vermiculite, sand or other non-combustible material to absorb spilled material and place into a container for later disposal.  
**Small Spills:** Wipe up with absorbent material. Clean surface thoroughly to remove residue. Store spilled material in original containers for re-use.

**Environmental precautions:** Prevent further leakage or spillage. If spilled, clean up immediately.  
**Precautions:** SPRAYOMER® High Performance Adhesive HPA11

## 7. HANDLING AND STORAGE

<b>Precaution for safe handling:</b>	Provide adequate ventilation. Use special instructions before use handling. Do not handle until all and understood. Do not breathe eyes. Avoid contact with skin.
<b>Conditions for safe storage, Including any incompatibilities</b>	Stored locked up. Keep contained children. Store in a cool dry place original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

#### US. Workplace Environmental Exposure Level (WEEL) Guide

Components	CAS #
Methylethylketoxime (impurity)	96-29-7

#### Vendor guide Components

Methylethylketoxime (impurity)	96-29-7
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<b>Biological limit values:</b>	No biological exposure li
<b>Appropriate engineering controls:</b>	Provide adequate gene Provide eyewash station. local exhaust, mechanical hours after application.

#### Individual protection measures such as personal protective

<b>Eye / Face protection:</b>	Tightly sealed safety glass
<b>Skin / Hand protection:</b>	Wear protective gloves.
<b>Other:</b>	Wear suitable protective
<b>Respiratory protection:</b>	If airborne concentrations limits, use NIOSH approv

<b>Thermal hazards:</b>	Wear appropriate therm necessary.
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<b>General Hygiene Considerations:</b>	Avoid contact with eyes. do not eat, drink or smc Wash hands before break product. Contaminated
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## 9. PHYSICAL/CHEMICAL CHARACTERISTICS

### Appearance

Form:

Color:

Odor:

Odor Threshold:

pH:

Melting point / freezing point:

Initial boiling point and boiling range:

Flash Point:

Evaporative rate:

Flammability (solid, gas):

Upper / Lower flammability or explosive limits:

Flammability limit – lower (%):

Flammability limit – upper (%):

Explosive limit – Lower (%):

Explosive limit – Upper (%):

Vapor pressure:

Vapor density:

Relative Density

Solubility (water):

Partition coefficient:

(n-octanol / water)

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Molecular weight:

Other information:

## 10. STABILITY AND REACTIVITY

Reactivity

No hazardous

storage and transport

Chemical stability

Stable at normal conditions

Possibility of hazardous reactions

Hazardous reactions

Conditions to avoid

None known.

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products:

This product releases

following components:

Product Name: SPRAYONER® High Performance Adhesive-IPAC

## SAFETY DATA SHEET

exposure controls / personal protection and section 11: toxicological information.

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Nitrogen oxides. Formaldehyde.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Ingestion:** No significant effects are expected

**Inhalation:** No significant effects are expected

**Skin contact:** May cause an allergic reaction

**Eye contact:** Causes serious eye irritation

**Symptoms related to the physical, chemical, and toxicological characteristics:** Dermatitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision. May cause an allergic skin reaction.

#### Information on toxicological effects

##### Acute toxicity

Components	CAS #	Species	Test Results
Alkoxysilane	(CAS proprietary)		
Acute Dermal LD50		Rabbit	> 2000 mg/kg 16 ml/kg
Inhalation LC 50		Rat	1.49-2.44 mg/l/4h
Oral LD 50		Rat	2995 mg/kg 2400 mg/kg
Methylethyl ketoxi me (impurity)	(CAS 96-29-7)		
Acute Dermal LD50		Rabbit	200 ul/kg
Oral LD50		Rat	930 mg/kg

**Skin corrosion / irritation:** Skin-Rabbit: Moderately irritating (al koxysilane)  
Skin-Rabbit: 500 mg/24hr.MILD (Octamethylcyclotetrasiloxane)

## SAFETY DATA SHEET

<b>Serious eye damage/eye irritation:</b>	Causes serious eye damage. (vinylloximesilane) (methylethylketoxime) Eye – Rabbit: 15mg SEVERE (alkoxysilane) Causes serious eye irritation. Eye – Rabbit: MILD (Octamethylcyclotetrasiloxane)
<b>Respiratory Sensitization:</b>	Not available.
<b>Skin Sensitization:</b>	May cause and allergic skin reaction. (Methyloximesilane) (Vinylloximesilane) (Methylethylketoxime). Positive (Guinea Pig) (alkoxysilane) No evidence of sensitization (Octa methylcyclotetrasiloxane)
<b>Germ Cell Mutagenicity:</b>	Negative (Ames test, Chromosome analysis, Micronucleus test) (Al koxysil a ne). Negative (Bacteria) (Octamethylcyclotetrasiloxane)
<b>Carcinogenicity:</b>	Suspected of causing cancer. (Methylethylketoxime)
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):</b>	Not listed
<b>Reproductive Toxicity:</b>	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) Developmental toxicity: NOAEL 500 mg/kg/day (rat), maternal toxicity: NOAEL 500 mg/kg/day (rat) (alkoxysilane)
<b>Specific target organ toxicity – single source:</b>	Not available
<b>Specific target organ toxicity – repeated exposure:</b>	May cause damage to the following organs through prolonged exposure. Cardiovascular / Hematological: Hematopoiesis. (vinylloximosilane)



## SAFETY DATA SHEET

Cardiovascular / Hematological: Hematopoiesis.  
(methyloximesilane)

Repeated inhalation or oral exposure of mice and rice to Octamethylcyclotetrasiloxane 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:**

Not available

**Chronic effects:**

Not available

**Further Information:**

Methylethylketoxime (MEKO). Material will generate MEKO upon exposure to humid air gradually. Male rodents exposed to MEKO vapor at high concentration throughout their lifetime developed liver cancer. But relevance to humans is uncertain now. Please read the detail information to MEKO below.

- **Skin Irritation:** Causes mild irritation. Can be absorbed through skin.
- **Eye Irritation:** Causes severe irritation.
- **Acute Oral Tox:** LD50(rat) = >900mg/kg
- **Acute Dermal Tox:** LD50(rabbit)=>1000mg/kg
- **Acute Inhalation Tox:** LC50 (rat) >4.83 mg/l/4hr
- **Inhalation Tox:** Shows narcotic action at high concentration. May produce blood effects.
- **Skin Sensitization:** Positive (guinea pig)
- **Neurotoxicity:** High dose can produce transient and reversible change in neurobehavioral function.

- **Carcinogenicity:** Liver carcinomas were observed in mice and rats which mice and rats were exposed.
- **Other Chronic Study:** Degenerative effects on the liver were observed in mice which occurred in a concentration related manner in male mice at a concentration of 15, 75 and 375 ppm. The significant effects were observed at 404 ppm concentration.
- **Workplace Environmental Exposure Level:** Vendor's recommended WEEL: 10 ppm(TWA).

## 12. ECOLOGICAL CONSIDERATIONS

### Ecotoxicity

- Alkoxysilane: Toxic to aquatic life. Toxic to aquatic invertebrates.
- Octamethylcyclotetrasiloxane: May cause long term effects on aquatic life.

		Components	
Alkoxysilane (CAS proprietary)			
<b>Aquatic</b>			
Algae	EbC50	Green Algae (Selenastrum)	cap
	ErC50	Green Algae (Selenastrum)	cap
Crustacea	EC50	Waterfleas (Daphnia magna)	ma
Fish	LC50	Bluegill (Lepomis macrochirus)	Flat
Product Name: SPRAYOMER® High Performance Adhesive HPA111			
		(Pinnacel)	Ra

### 13. DISPOSAL CONSIDERATIONS

Can be land-filled for cured product or burned in a chemical afterburner and scrubber. Do not dispose the emptied container in accordance with 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 Annex II of MARPOL 73/78 and The IBC Code:** This product is not regulated as dangerous goods.

### 15. REGULATORY INFORMATION

**US federal regulations:** This product is a "Hazardous Chemical" under the Hazardous Chemical Communication Standard, 29 CFR 1910.120. All components are on the U.S. Environmental Protection Agency's (EPA) Inventory of Existing Commercial and Consumer Chemicals.

**OSHA Specifically Regulated Substances (29 CFR 1910.120):** None.

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1992 (SARA) 313 (TRI reporting)**

#### US State Regulations

- **Massachusetts: Substance List:** Not regulated.
- **New Jersey Worker and Community Right to Know Act:** Not regulated.
- **Pennsylvania Worker and Community Right to Know Act:** Not regulated.
- **Rhode Island RTK:** Not regulated.
- **California Proposition 65:** California Safe Drinking Water Act (1986 (Proposition 65)): This product is not a chemical currently listed as a carcinogen or reproductive toxicant.

Yes  
No  
Yes

Yes  
No  
Yes

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