

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT IDENTIFICATION:

**86105**

**Supplier's Name: Forney Industries, Inc.**

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Fort Collins, CO 80525  
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Tel: 800-521-6038

Product Name: R Grade Oxygen & Acetylene Twin Welding Hose.

Forney SKUs: **86105, 86109, 86145, 86146**

**Product Use:** For welding and cutting purposes.

**Product Code & Type: Hose I.D:** 3/16", 1/4", 3/8". **Hose Length:** 25FT, 50FT, 100FT.

**Pressure:** W.P: 300 psi; **Safety factor:** 3:1

### **R Grade Oxygen & Acetylene Twin Welding Hose 300psi Inspection Report**

S/N	Tested Item	Engineering Guide & Requirements	Apparatus	Test Result
1	Hose Color	Tolerance: ± 1 pantone color	Visual Inspection in According with Pantone	Within ±1 color
2	Surface	Smooth And Clean	Visual Inspection	Smooth And Clean
3	Printing	Correct And Clear	Visual Inspection	Correct And Clear
4	Hose I.D & O.D	Tolerance: ± 0.3mm	Caliper and Dies	+ 0.15mm
5	Hose Length	Tolerance: Over 10cm than required Length	Meter Counter	12cm
6	Fitting Thread 1/4in. M NPT	Ring Gauge Test Standard	Ring Gauge	1/4in. M NPT
7	Leak Test	Maintain the hose pressure at 100psi and no leakage of air shall be found	Air Compressor	No Leakage
8	Working Pressure	Max W.P 300psi	Water Pressure Test Pump	300psi
9	Bursting Pressure	Min B.P 900psi	Water Pressure Test Pump	900psi
10	Tension Test	Min 200 lbs before fitting pulled off.	Tensile Machine	250 lbs
11	Abrasion Resistance	20,000 times tested, shall see no cracking or serious damage of hose cover	Abrasion Test Machine	No cracking
12	Temp. Range	-22 to 190°F. Put hose in Temp. Test Chamber, when the Temp. gets to the required degree, then test the hose bursting pressure	Temp. Test Chamber Water Pressure Test Pump	-22 to 190°F

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13	Ozone Aging Test	Determine the tensile strength and volume change after 166±1 hours exposed in Ozone chamber	Ozone Test Chamber	Pass
14	Oil and Flame Resistance	/	/	Cover and tube are not flame and oil resistant

## **Product features:**

1. Very flexible;
2. Abrasion resistant outer cover;
3. Cover and tube are not flame and oil resistant;
4. 300 psi maximum working pressure, 3:1 safety factor;
5. Retains nice flexibility in sub freezing temperatures: -22 to 190°F;
6. Easy to coil after use;

## **2. COMPOSITION/INFORMATION ON INGREDIENTS**

### **Substance/Preparation: Preparation**

<b>Ingredients Name</b>	<b>Content</b>	<b>CAS NO.</b>
Styrene Butadiene Rubber	25%	9003-55-8
Calcium	25%	78515-92-1
DOP	19%	84-74-2
Carbon black	16%	1333-86-4
Chlorinated paraffin	5%	106232-86-4
Pigment	4%	-
UV Stabilizer	1%	-
vulcanizing agent	4%	-
Brass fittings	1%	86376-49-0

## **3. HAZARDS IDENTIFICATION**

The preparation is classified as Miscellaneous Hazardous Material according to Directive 1999/45/EC and its amendments.

### **Primary Hazards and Critical Effects:**

Individual who is sensitive to Styrene Butadiene Rubber may cause skin sensitization

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by long time skin contact.

## **Environmental Hazards:**

Non-Toxic to environment.

## **4. FIRST AID MEASURES**

### **Skin:**

If sensitization happens, get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

## **5. HANDLING AND STORAGE**

### **Handling:**

Repeated or prolonged contact with this product should be avoided in order to lessen the possibility of skin sensitizing. It is essential that all who come into contact with this material maintain high standards of personal hygiene. Washing hands prior to eating, drinking or going to the toilet.

### **Storage:**

Store in a cool, dry place. Keep away from direct sunlight, strong acid and alkali for long term product life.

## **6. PERSONAL PROTECTION**

**Respiratory protection:** Not required for normally use.

**Hand protection:** Not required for normally use.

**Eye protection:** Not required for normally use.

**Skin protection:** Not required for normally use.

Warning! Never exceed recommended air pressure for hose or air tool. Before use, inspect hose for damage. Discard hose if any bubbles, abrasions, or damage to hose is visible. This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm, pregnant women is not suggested to use this product.

Warning! Industrial grade product, not for food, beverage or drinking water application.

## **7. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance:** Solid

**Odor:** rubber product smell

**PH:** Not available

**Vapor Density (Air=1):** Not available

**Specific Gravity (water=1):** Not available

**Density:** Not available

**Boiling Point:** Not available

**Melting Point:** Not available

**Freezing point:** Not available

**Flash Point:** Not available

**Solubility in Water:** Not soluble

**Viscosity:** Not available

**Evaporation Rate (n-Butyl Acetate=1):** Not available

## **8. STABILITY AND REACTIVITY**

### **Stability:**

Stable at room temperature under normal storage and handling conditions

### **Conditions to Avoid:**

Incompatible materials, or temperature beyond the product temp. range.

### **Materials to Avoid:**

Strong acid and alkali

## **9. TOXICOLOGICAL INFORMATION**

### **Acute toxicity data**

No toxicity data available for this product.

### **Carcinogenicity**

Not classifiable as a human carcinogen

## **10. OTHER INFORMATION**

**Validation Date:** 2021.8.4

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\* \* \* END OF MSDS \* \* \*