

# SAFETY DATA SHEET

The Ruscoe Company

Page 1  
Date Prepared: 6/05/2017  
Date Printed: 06/06/17  
SDS Reference No.: R-256

## 1. Identification

### Material Identity

Product Name: Ruscoe WPS-TG LV2

Product Number: 57717E

Generic ID: Nitrile Rubber Sealant

### Company

The Ruscoe Company  
485 Kenmore Blvd.  
Akron, Ohio 44301  
Telephone: 330-253-8148

**Emergency Telephone: 800-424-9300**  
(Chemtrec – 24 hours/day)

Fax: 330-253-2933

## 2. Hazards identification

### Classification of the substance or mixture

Flammable liquids	Category 2
Serious eye damage/ eye irritation	Category 1
Acute toxicity; inhalation	Category 4
Acute toxicity; oral	Category 4
Acute toxicity; dermal	Category 3
Skin irritation	Category 2
Skin sensitizer	Category 1
Acute aquatic toxicity	Category 3
Specific target organ toxicity – single exposure respiratory system, central nervous system	Category 3

GHS classification scale (1=severe hazard; 4=slight hazard)

### Label elements

#### GHS label elements

The mixture is classified and labeled according to the the Globally Harmonized System (GHS).

#### Hazard pictograms



Continued on next page

## SAFETY DATA SHEET

The Ruscoe Company

Page 2

Date Prepared:6/05/2017

Date Printed: 06/06/17

SDS Reference No.: R-256

**Signal Word:** Danger

### Hazard statements

H225 Highly flammable liquid and vapor.  
H302+H332 Harmful if swallowed or if inhaled  
H311 Toxic in contact with skin.  
H315+H318 Causes skin and serious eye irritation.  
H317 May cause an allergic skin reaction  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness  
H402 Harmful to aquatic life

### Precautionary statements

#### Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces.- No smoking  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 Wash hands thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

P370+P378 In case of fire; use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.  
P301+P312+P330 IF SWALLOWED: Call a poison center or doctor/physician if you feel unwell. Rinse mouth.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.  
P337+P313 If eye irritation persists: Get medical attention.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.

#### Storage

P405 Store locked up.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.

Continued on next page

# SAFETY DATA SHEET

The Ruscoe Company

Page 3

Date Prepared: 6/05/2017

Date Printed: 06/06/17

SDS Reference No.: R-256

## Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazards not otherwise classified:** Potential peroxide former.

---

## 3. Composition/information on ingredients

Ingredients	CAS Number	% (by weight)
Methyl acetate	79-20-9	23-28
Acetone	67-64-1	14-18
Copolymer of: vinyl acetate + vinyl chloride + dicarbonic acid	N/A	14-18
Calcium sulfate, anhydrous	7778-18-9	10-14
Synthetic rubber	9003-18-3	9-13
t-Butyl acetate	540-88-5	6-8
Bisphenol A epoxy resin	25068-38-6	4-6
Titanium dioxide	13463-67-7	4-5
Cyclohexanone	108-94-1	2.9-3.3

VOC Content 95 g/l (3.3 %)

---

## 4. First aid measures

### Description of first aid measures

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs give artificial respiration or oxygen by trained personnel. Get medical attention. If necessary, call a poison center or physician.

**Skin contact:** Remove contaminated clothing as needed. Wash with plenty of soap and water. Immediately flush plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Seek medical attention if ill effect or irritation develops.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If easy to do remove contact lenses. If irritation persists seek medical attention.

**Ingestion:** Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed

May irritate and cause redness and pain. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

## SAFETY DATA SHEET

The Ruscoe Company

Page 4

Date Prepared: 6/05/2017

Date Printed: 06/06/17

SDS Reference No.: R-256

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

---

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing agents:** Water spray, carbon dioxide, dry chemical, alcohol foam.

**For safety reasons unsuitable extinguishing agents:** Solid water stream – may spread fire.

**Special hazards arising from the substance or mixture:** Vapors may cause a flash fire or ignite explosively. Vapors may travel a considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Runoff to sewer may create fire or explosion hazard. Water contaminated with this material be contained and prevented from being discharged to any waterway, sewer or drain.

#### Advice for firefighters

**Hazardous thermal decomposition products:** Carbon dioxide, carbon monoxide.

**Protective equipment:** Self contained breathing apparatus and full protective clothing must be worn in case of fire.

---

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Immediately evacuate personnel to safe areas. Keep people away and upwind of spill/leak. Remove all sources of ignition.

#### Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

#### Methods and material for containment or cleaning up:

Absorb with liquid-binding material (ie. Sand, diatomite, dry earth, acid binders, or other non-combustible material).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents.

#### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

---

### 7. Handling and storage

#### Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

#### Information about protection against explosions and fire:

Keep ignition sources away – Do not smoke.

Protect from heat.

## SAFETY DATA SHEET

The Ruscoe Company

Page 5

Date Prepared: 6/05/2017

Date Printed: 06/06/17

SDS Reference No.: R-256

Protect against electrostatic charges.

### Conditions for safe storage, including any incompatibilities

#### Storage

**Requirements to be met by storerooms and receptacles:** Store in a cool location.

**Information about storage in one common storage facility:** Not required.

#### Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

**Specific end use(s)** No further relevant information available.

---

### 8. Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see section 7.

#### Control parameters

**Components with limit values that require monitoring at the workplace:**

##### 79-20-9 methyl acetate

TWA 200 ppm - ACGIH

STEL 250 ppm - ACGIH

PEL 200 ppm - OSHA

##### 67-64-1 acetone

TWA 500 ppm - ACGIH

STEL 750 ppm - ACGIH

REL 250 ppm - NIOSH

PEL 1000 ppm - OSHA

TWA 750 ppm - OSHA

STEL 1000 ppm - OSHA

##### 540-88-5 t-butyl acetate

TWA 200 ppm - ACGIH

IDLH 1500 ppm - NIOSH

TWA 200 ppm - OSHA

##### 108-94-1 cyclohexanone

TWA 20 ppm - ACGIH

STEL 50 ppm - ACGIH

TWA 25 ppm - NIOSH REL

TWA 50 ppm - OSHA Z-1

TWA 25 ppm - OSHA P0

#### Ingredients with biological limit values:

**108-10-1 methyl ethyl ketone:** 1/mg/l urine ACGIH BEL, Sample: end of shift.

**Additional Information:** Not available..

#### Exposure controls

Good general ventilation (typically 10 air changes/hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust

## SAFETY DATA SHEET

The Ruscoe Company

Page 6

Date Prepared: 6/05/2017

Date Printed: 06/06/17

SDS Reference No.: R-256

ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

### **Personal protective equipment:**

#### **General protective and hygienic 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Splash goggles. 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.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical 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 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.

**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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**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:** Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

---

## 9. Physical and chemical properties

### **General information**

#### **Appearance:**

**Form:**

Thick liquid

**Color:**

White colored

**Odor:**

Pleasant to pungent ketone

**Odor threshold:**

Not Determined

**pH-value**

7

Continued on next page

## SAFETY DATA SHEET

The Ruscoe Company

Page 7

Date Prepared: 6/05/2017

Date Printed: 06/06/17

SDS Reference No.: R-256

### Change in condition

<b>Melting point/Melting range:</b>	-99 to -94 °C (-106 to -97 °F)
<b>Boiling point/Boiling range:</b>	55 -58°C (131 to 136°F)
<b>Flash point:</b>	-13 to -1°C (9 - 30°F)
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	465°C (869 °F)
<b>Decomposition temperature:</b>	Not determined
<b>Auto igniting:</b>	Not determined
<b>Danger of explosion:</b>	No data available
<b>Explosion Limits:</b>	
<b>Lower:</b>	2 Vol %
<b>Upper:</b>	12 Vol %
<b>Vapor Pressure @ 20 °C (68 °F)</b>	241 hPa (181 mm Hg)
<b>Density @ 20 °C (68 °F)</b>	1.08 g/cm <sup>3</sup> (9.04 lbs/gal)
<b>Relative density</b>	Not determined
<b>Vapor density</b>	Not determined
<b>Evaporation rate</b>	Not determined
<b>Solubility in/ Miscibility with water:</b>	Not miscible or difficult to mix
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined
<b>Kinematic:</b>	Not determined
<b>Organic solvents:</b>	51-52%
<b>VOC content</b>	95 g/l (3.3 %)
<b>Other information</b>	No further relevant information available.

---

### 10. Stability and reactivity

**Reactivity** Stable under normal conditions.

#### **Chemical stability**

**Thermal decomposition/conditions to be avoided:** No decomposition under normal use conditions.

**Possibility of hazardous reactions** No dangerous reactions known expected.

**Conditions to avoid** Heat, sparks and flames. .

**Incompatible materials:** Acids, alkalies, nitrates, amines, ammonia, peroxides, hydrogen peroxide, nitric acid, reducing agents and strong oxidizing agents.

**Hazardous decomposition products:** Carbon dioxide, carbon monoxide.

---

### 11. Toxicological information

#### **Information on toxicological effects**

##### **Acute toxicity:**

##### **LD/LC50 values that are relevant for classification:**

##### **79-20-9 methyl acetate**

Oral LD50 6482 mg/kg (rat) (highest dose tested)

Dermal LD50 >2000 mg/l (highest dose tested)

Continued on next page

## SAFETY DATA SHEET

The Ruscoe Company

Page 8

Date Prepared: 6/05/2017

Date Printed: 06/06/17

SDS Reference No.: R-256

Inhalation LC50 >49 mg/l (rat) 4h

Skin corrosion/irritation slight (rabbit) 24 h

### **67-64-1 acetone**

Oral LD50 5800 mg/kg (rat)

Dermal LD50 >7426 mg/kg

Inhalation LC50 32000 ppm (rat) 4h

Skin irritation Mild skin irritation (rabbit) 24h

### **540-88-5 t-butyl acetate**

Oral LD50 4050 mg/kg

Dermal LD50: >2000 mg/kg

Inhalation LC50 12.52 mg/l 4h

### **108-94-1 cyclohexanone**

Oral LD50 1890 mg/kg (rat)

Dermal LD50 946 mg/kg (rabbit)

Inhalation LC50 15 mg/l (rat)

Skin irritation: irritating to skin

### **Primary irritant effect:**

**On the skin:** Mild irritant effect.

**On the eye:** May cause moderate eye irritation.

**Sensitization:** No sensitizing effects known.

### **Additional toxicological information:**

#### **Carcinogenic categories**

#### **ACGIH Carcinogens**

Mixture substances are not listed or below amounts requiring listing.

#### **IARC (International Agency for Research on Cancer)**

Mixture substances are not listed or below amounts requiring listing.

#### **NTP (National Toxicology Program)**

Mixture substances are not listed or below amounts requiring listing.

#### **US OSHA Specifically Regulated Substances: Potential cancer hazard**

Mixture substances are not listed or below amounts requiring listing.

---

## **12. Ecological information**

### **Toxicity**

**Aquatic toxicity:** No further relevant information available.

### **79-20-9 methyl acetate**

LC50 (fathead minnow) 320-399 mg/l 96h

EC50 (daphnid) 1027 mg/l 48h

EC50 (Selenastrum capricornutum) >120 mg/l 72h

### **67-64-1 acetone**

LC50 (Oncorhynchus mykiss (rainbow trout)) 5540 mg/l 96h static test

LC50 (Lepomis macrochirus (bluegill sunfish)) 8300 mg/l 96h static test

LC50 (Daphnia magna (water flea)) 12600-12700 mg/l 48h

EC50 (Chlorella pyrenoidosa) 3020 mg/l 14d

EC50 (Photobacterium phosphoreum) 14500 mg/l 15min

Continued on next page



## SAFETY DATA SHEET

The Ruscoe Company

Page 9

Date Prepared: 6/05/2017

Date Printed: 06/06/17

SDS Reference No.: R-256

### **540-88-5 t-butyl acetate**

Acute toxicity to fish and marine animals is very low.

EC50 16 mg/l (Pseudokirchneriella subcapitata, green algae) 72h, growth inhibition

EC50 64 mg/l 96h

NOEC 2.3 mg/l

Respiration inhibition in bacteria at 1.5 mg/l. High concentrations may be harmful to sewage treatment bacteria.

### **108-94-1 cyclohexanone**

LC50 (Pimephales promelas (fathead minnow)) >100 mg/ml 96h, flow through test

EC50 (Daphnia magna (Water flea)): >100 mg/l 48h, static test, OECD Test Guideline 202, GLP: yes, Remark: Information given is based on data obtained from similar circumstances.

EC50 (Desmodesmus subcapitata, Scenedesmus subcapitata): >100 mg/l 72h, static test, analytical monitoring, OECD Test Guideline 201, GLP: yes, Remark: Information given is based on data obtained from similar circumstances.

EC50 (activated sludge) >1000 mg/l, End point: respiratory rate, 30 min, static test, OECD Test Guideline 209

### **Persistence and degradability**

**79-20-9 methyl acetate:** 70% (28d)

**67-64-1 acetone:** Readily biodegradable. Biodegradation 78% OECD 301 D

**540-88-5 t-butyl acetate:** 50% Inherently (after 28 days in a ready biodegradability test.)

**108-94-1 cyclohexanone:** >60% Readily biodegradable. Biodegradation 97%, 28 d.

### **Bioaccumulative potential**

540-88-5 t-butyl acetate: BCF: 5.61 This material not expected to bioaccumulate.

108-94-1 cyclohexanone: log Pow: 0.81

### **Mobility in soil**

540-88-5 t-butyl acetate: Hydrolyzes in water, under environmental conditions, half life 334 d (8010h) at 25C and pH 7. Low absorption to soil particulates predicted. .

### **Additional ecological information:**

#### **General notes:**

#### **Results of PBT and vPvB assessment**

**PBT:** No data available.

**vPvB:** No data available.

**Other adverse effects** No further relevant information available.

---

## **13. Disposal considerations**

### **Waste treatment methods**

#### **Recommendation:**

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

Continued on next page

## SAFETY DATA SHEET

The Ruscoe Company

Page 10

Date Prepared: 6/05/2017

Date Printed: 06/06/17

SDS Reference No.: R-256

recycled. 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

---

### 14. Transport information

**UN-Number**

**DOT, ADR, IMDG, IATA**

UN1133

**UN proper shipping name**

**DOT**

Adhesives, containing a flammable liquid.

**ADR**

Not determined

**IMDG, IATA**

Not determined

**Transport hazard class(es)**

**DOT**



**Class**

3 Flammable liquids.

**Label**

3

**ADR**

Not determined

**Class**

Not determined

**IMDG< IATA**

Not determined

**Class**

Not determined

**Label**

Not determined

**Packing group**

**DOT, ADR, IMDG, IATA**

II

**Environmental hazards:**

**Marine pollutant:**

No

**Special precautions for user**

Warning: Flammable liquids

**Danger code (Kemler)**

33

**EMS Number:**

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

**Transport/Additional information:**

**DOT**

**Remarks:**

ERG Guide Number: 128

**UN "Model Regulation":**

UN1133, Adhesives, 3, II

## SAFETY DATA SHEET

The Ruscoe Company

Page 11

Date Prepared: 6/05/2017

Date Printed: 06/06/17

SDS Reference No.: R-256

### 15. Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Section 304 Extremely Hazardous Substances Reportable quantity(RQ):**

None

**Section 302 Threshold Planning Quantity (TPQ):**

67-64-1 acetone	5000 lb
540-88-5 t-butyl acetate	5000 lb
108-94-1 cyclohexanone	5000 lb

**Section 311 (Clean Water Act)**

**Classification:** Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

**California Proposition 65:**

**Carcinogens list:**

Benzene	71-43-2
Acetaldehyde	75-07-0
Cumene	98-82-8

**Reproductive Toxicity:**

Toluene	108-88-3
Benzene	71-43-2
Vinyl chloride	75-07-0
Vinyl acetate	75-01-4

---

### 16. Other Information

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of the need that the information is current, applicable, and suitable to their circumstances.

**Date of preparation/last revision** 6/5/2017

**Abbreviations and acronyms:**

ADR: Accord European sur le transport des marchandises par Route (European Agreement concerning the international Carriage of Dangerous Goods)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Government Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

Continued on next page

**SAFETY DATA SHEET**

**The Ruscoe Company**

Page 12

Date Prepared: 03/20/2017

Date Printed: 06/06/17

MSDS Reference No.: R-233

LD50: Lethal Dose, 50 percent

End of SDS