The Ruscoe Company

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1. Identification

Material Identity

Product Name: APS-TG Permanent Sealer Aluminum (APS-TG-LV)

Product Number: 56029Y

Generic ID: Nitrile Rubber Sealant

Company Emergency Telephone: 800-424-9300

The Ruscoe Company (Chemtrec – 24 hours/day)

485 Kenmore Blvd. Akron, Ohio 44301

Telephone: 330-253-8148 Fax: 330-253-2933

2. Hazards identification

Classification of the substance or mixture

Flammable liquids	Category 2
Serious eye damage/ eye irritation	Category 2A
Acute toxicity; inhalation	Category 4
Specific target organ toxicity – single exposure	Category 3
respiratory system, central nervous system	
Skin corrosion/irritation	Category 2
Carcingenicity: inhalation	Category 2
Specific target organ toxicity- single exposure	Category 3
respiratory tract irritation	
Specific target organ toxicity – repeated exposure	Category 2
inhalation(ears)	
Aspiration hazard	Category 1

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







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Signal Word: Danger **Hazard statements**

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H332 Harmful if inhaled

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness

Precautionary statements

Prevention

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
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
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P233	Keep container tightly closed.
_	

Response

P370+P378 In case of fire; use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

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.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/

International regulations.

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3. Composition/information on ingredients

Ingredients	CAS Number	% (by weight)
Methyl acetate	79-20-9	29-34
Synthetic rubber	9003-18-3	18-22
Acetone	67-64-1	10-13
Phenolic Resin	N/A	13-16
t-Butyl acetate	540-88-5	4-6
Ground limestone	1317-65-3	5-7
Magnesium silicate	14807-96-6	1-3
Aluminum powder	7429-90-5	2-4
Mineral spirits	8052-41-3	1.4 1-8
Xylenes, mixed isomers	1330-20-7	0.8-1.0
Hydrated amorphous silica	7631-86-9	0.4-0.8
Ethylbenzene	100-41-4	0.1-0.3
Polymeric phenolic antioxidant	68610-51-5	0.1-0.3
Formaldehyde	50-00-0	>10 ppb

VOC Content 75 g/l (3.1%)

4. First aid measures

Description of first aid measures

Inhalation: Remove to free

Remove to fresh air and keep at rest in apposition 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position Maintain an open airway. Loosen tight clothing such as a collar, tie belt or waistband.

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

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

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 foamr. 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:

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Keep ignition sources away – Do not smoke.

Protect from heat.

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 - OSHASTEL 1000 ppm - OSHA

540-88-5 t-butyl acetate

TWA 200 ppm - ACGIH

IDLH 1500 ppm – NIOSH Remarks: 10% LEL

200 ppm - OSHA**TWA STEL** 1000 ppm - OSHA

8052-41-3 mineral spirits

 $350 \text{ mg/m}^3 - \text{NIOSH TWA}$ **REL** 1800 mg/m³ – NIOSH 15 minute **CEIL**

TWA 500 ppm – OSHA

1330-20-7 xylenes mixed isomers

TWA 100 ppm – ACGIH

150 ppm – ACGIH 15 minute STEL

100 ppm – OSHA **TWA**

100-41-4 ethylbenzene

20 ppm – ACGIH **TWA**

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TWA 100 ppm - OSHA **50-00-0 Formaldhyde**

STEL 2 ppm TWA 0.75 ppm

Ingredients with biological limit values: None known.

Additional Information: Not available..

Exposure controls

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

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select the glove material based on penetration times, rates of diffusion and degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection: Wear safety glasses with side shields or tightly sealed goggles. Wear a respirator if needed.

9. Physical and chemical properties

General information

Appearance:

Form: Liquid

Color: Silver colored

Odor: Pleasant to pungent ketone

Odor threshold: Not Determined

pH-value 7

Change in condition

Melting point/Melting range: -99 to -94 °C (-106 to -97 °F)

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Boiling point/Boiling range: $55 - 58^{\circ}\text{C} (131 \text{ to } 136^{\circ}\text{F})$ **Flash point:** $-13 \text{ to } -1^{\circ}\text{C} (9 - 30^{\circ}\text{F})$

Flammability (solid, gaseous):

Ignition temperature:

Decomposition temperature:

Auto igniting:

Not determined

Not determined

Not determined

Not determined

No data available

Explosion Limits:

Lower: 1.3 Vol % **Upper:** 12 Vol %

Vapor Pressure @ **20** °C (**68** °F) 241 hPa (181 mm Hg) **Density** @ **20** °C (**68** °F) 1.03 g/cm³ (8.55 lbs/gal

Relative densityNot determinedVapor densityNot determinedEvaporation rateNot determined

Solubility in/ Miscibility with water: Not miscible or difficult to mix

Partition coefficient (n-octanol/water): Not determined

Viscosity:

Dynamic: Not determined **Kinematic:** Not determined

Organic solvents: 50-51

VOC content 75 g/l (3.1 %)

Other information 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, 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)

67-64-1 acetone

Oral LD50 5800 mg/kg (rat)

540-88-5 t-butyl acetate

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Oral LD50 4500 mg/kg

1330-20-7 xylenes, mixed isomers

Oral LD50 4300 mg/kg **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

100-41-4 Ethylbenzene A3 Confirmed animal carcinogen with unknown

relevance to humans.

50-00-0 Formaldehyde A2 Suspected human carcinogen.

1330-20-7 Xylene A4 Not classifiable as a human carcinogen.

IARC (International Agency for Research on Cancer)

100-41-4 Ethylbenzene 2B Possibly carcinogenic to humans.

50-00-0 Formaldehyde 1 Carcinogenic to humans.

1330-20-7 Xylene 3 Not classifiable as to carcinogenicity to humans.

NTP (National Toxicology Program)

50-00-0 Formaldehyde Known to be a human carcinogen. **US OSHA Specificall Regulated Substances: Potential cancer hazard**

50-00-0 Formaldehyde Potential cancer hazard.

12. Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

Other adverse effects No futher relevant information available.

13. Disposal considerations

Waste treatment methods

Recommendation:

Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Comply with applicable federal, state, and local regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

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Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

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

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

15. Regulatory information

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

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Sara

Section 355 (extremely hazardous substances):

Mixture substances are not listed.

Section 313 (Specific toxic chemical listings):

Mixture substances are not listed.

TSCA (Toxic Substance Control Act):

1330-20-7 xylenes, mixed isomers is listed.

Proposition 65

Chemicals known to cause cancer:

Mixture substances are not listed or below amounts requiring listing.

Chemicals known to cause reproductive toxicity for females:

Mixture substances are not listed or below amounts requiring listing.

Chemicals known to cause reproductive harm to males:

Mixture substances are not listed.

Chemicals known to cause developmental toxicity:

Mixture substances are not listed or below amounts requiring listing..

TLV (Theshold Limit Value established by ACGIH)

Not determined.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Mixture substances are not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Mixture substances are not listed.

GHS label elements

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

Chemical safety assesment: A chemical Safety Assesment has not been carried out.

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 2/22/2017 - 5/19/2017 - 6/1/2017

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)

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LC50: Lethal concentration, 50 percent

LD50: Lethal Dose, 50 percent

End of SDS

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1. Identification

Material Identity

Product Name: Ruscoe 12-1 LV (W2-1 LV)

Product Number: 56029Y

Generic ID: Nitrile Rubber Sealant

Company Emergency Telephone: 800-424-9300

The Ruscoe Company (Chemtrec – 24 hours/day)

485 Kenmore Blvd. Akron, Ohio 44301

Telephone: 330-253-8148 Fax: 330-253-2933

2. Hazards identification

Classification of the substance or mixture

Flammable liquids	Category 2
Serious eye damage/ eye irritation	Category 2A
Acute toxicity; inhalation	Category 4
Specific target organ toxicity – single exposure	Category 3
respiratory system, central nervous system	
Skin corrosion/irritation	Category 2
Carcingenicity: inhalation	Category 2
Specific target organ toxicity- single exposure	Category 3
respiratory tract irritation	
Specific target organ toxicity – repeated exposure	Category 2
inhalation(ears)	
Aspiration hazard	Category 1

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







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Signal Word: Danger **Hazard statements**

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H332 Harmful if inhaled

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness

Precautionary statements

Prevention

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
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
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P233	Keep container tightly closed.
_	

Response

P370+P378 In case of fire; use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

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.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/

International regulations.

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3. Composition/information on ingredients

Ingredients	CAS Number	% (by weight)
Methyl acetate	79-20-9	29-34
Synthetic rubber	9003-18-3	18-22
Acetone	67-64-1	10-13
Phenolic Resin	N/A	13-16
t-Butyl acetate	540-88-5	4-6
Ground limestone	1317-65-3	5-7
Magnesium silicate	14807-96-6	1-3
Aluminum powder	7429-90-5	2-4
Mineral spirits	8052-41-3	1.4 1-8
Xylenes, mixed isomers	1330-20-7	0.8-1.0
Hydrated amorphous silica	7631-86-9	0.4-0.8
Ethylbenzene	100-41-4	0.1-0.3
Polymeric phenolic antioxidant	68610-51-5	0.1-0.3
Formaldehyde	50-00-0	>10 ppb

VOC Content 75 g/l (3.1%)

4. First aid measures

Description of first aid measures

Inhalation: Remove to fresh air

Remove to fresh air and keep at rest in apposition 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position Maintain an open airway. Loosen tight clothing such as a collar, tie belt or waistband.

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

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

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 foamr. 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:

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Keep ignition sources away – Do not smoke.

Protect from heat.

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 Remarks: 10% LEL

TWA 200 ppm – OSHA STEL 1000 ppm – OSHA

8052-41-3 mineral spirits

REL 350 mg/m³ – NIOSH TWA CEIL 1800 mg/m³ – NIOSH 15 minute

TWA 500 ppm - OSHA

1330-20-7 xylenes mixed isomers

TWA 100 ppm – ACGIH

STEL 150 ppm – ACGIH 15 minute

TWA 100 ppm - OSHA

100-41-4 ethylbenzene

TWA 20 ppm – ACGIH

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TWA 100 ppm - OSHA **50-00-0 Formaldhyde**

STEL 2 ppm TWA 0.75 ppm

Ingredients with biological limit values: None known.

Additional Information: Not available..

Exposure controls

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

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select the glove material based on penetration times, rates of diffusion and degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection: Wear safety glasses with side shields or tightly sealed goggles. Wear a respirator if needed.

9. Physical and chemical properties

General information

Appearance:

Form: Liquid

Color: Silver colored

Odor: Pleasant to pungent ketone

Odor threshold: Not Determined

pH-value 7

Change in condition

Melting point/Melting range: -99 to -94 °C (-106 to -97 °F)

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Boiling point/Boiling range: $55 - 58^{\circ}\text{C} (131 \text{ to } 136^{\circ}\text{F})$ **Flash point:** $-13 \text{ to } -1^{\circ}\text{C} (9 - 30^{\circ}\text{F})$

Flammability (solid, gaseous):

Ignition temperature:

Decomposition temperature:

Auto igniting:

Not determined

Not determined

Not determined

Not data available

Explosion Limits:

Lower: 1.3 Vol % **Upper:** 12 Vol %

Vapor Pressure @ **20** °C (**68** °F) 241 hPa (181 mm Hg) **Density** @ **20** °C (**68** °F) 1.03 g/cm³ (8.55 lbs/gal

Relative densityNot determinedVapor densityNot determinedEvaporation rateNot determined

Solubility in/ Miscibility with water: Not miscible or difficult to mix

Partition coefficient (n-octanol/water): Not determined

Viscosity:

Dynamic: Not determined **Kinematic:** Not determined

Organic solvents: 50-51

VOC content 75 g/l (3.1 %)

Other information 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, 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)

67-64-1 acetone

Oral LD50 5800 mg/kg (rat)

540-88-5 t-butyl acetate

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Oral LD50 4500 mg/kg

1330-20-7 xylenes, mixed isomers

Oral LD50 4300 mg/kg **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

100-41-4 Ethylbenzene A3 Confirmed animal carcinogen with unknown

relevance to humans.

50-00-0 Formaldehyde A2 Suspected human carcinogen.

1330-20-7 Xylene A4 Not classifiable as a human carcinogen.

IARC (International Agency for Research on Cancer)

100-41-4 Ethylbenzene 2B Possibly carcinogenic to humans.

50-00-0 Formaldehyde 1 Carcinogenic to humans.

1330-20-7 Xylene 3 Not classifiable as to carcinogenicity to humans.

NTP (National Toxicology Program)

50-00-0 Formaldehyde Known to be a human carcinogen. **US OSHA Specificall Regulated Substances: Potential cancer hazard**

50-00-0 Formaldehyde Potential cancer hazard.

12. Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

Other adverse effects No futher relevant information available.

13. Disposal considerations

Waste treatment methods

Recommendation:

Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Comply with applicable federal, state, and local regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

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Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

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

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

15. Regulatory information

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

The Ruscoe Company

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Sara

Section 355 (extremely hazardous substances):

Mixture substances are not listed.

Section 313 (Specific toxic chemical listings):

Mixture substances are not listed.

TSCA (Toxic Substance Control Act):

1330-20-7 xylenes, mixed isomers is listed.

Proposition 65

Chemicals known to cause cancer:

Mixture substances are not listed or below amounts requiring listing.

Chemicals known to cause reproductive toxicity for females:

Mixture substances are not listed or below amounts requiring listing.

Chemicals known to cause reproductive harm to males:

Mixture substances are not listed.

Chemicals known to cause developmental toxicity:

Mixture substances are not listed or below amounts requiring listing..

TLV (Theshold Limit Value established by ACGIH)

Not determined.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Mixture substances are not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Mixture substances are not listed.

GHS label elements

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

Chemical safety assesment: A chemical Safety Assesment has not been carried out.

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 2/22/2017 - 5/19/2017 - 6/1/2017

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)

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LC50: Lethal concentration, 50 percent

LD50: Lethal Dose, 50 percent

End of SDS

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1. Identification

Material Identity

Product Name: Ruscoe 12-3-LV Product Number: 56077S

Generic ID: Nitrile Rubber Sealant

Company Emergency Telephone: 800-424-9300

The Ruscoe Company (Chemtrec – 24 hours/day)

485 Kenmore Blvd. Akron, Ohio 44301

Telephone: 330-253-8148 Fax: 330-253-2933

2. Hazards identification

Classification of the substance or mixture

Flammable liquids	Category 2
Serious eye damage/ eye irritation	Category 2A
Acute toxicity; inhalation	Category 4
Specific target organ toxicity – single exposure	Category 3
respiratory system, central nervous system	
Skin corrosion/irritation	Category 2
Carcingenicity: inhalation	Category 2
Specific target organ toxicity- single exposure	Category 3
respiratory tract irritation	
Specific target organ toxicity – repeated exposure	Category 2
inhalation(ears)	
Aspiration hazard	Category 1

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







The Ruscoe Company

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Signal Word: Danger **Hazard statements**

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H332 Harmful if inhaled

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness

Precautionary statements

Prevention

110,011011	
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
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
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P233	Keep container tightly closed.
_	

Response

P370+P378 In case of fire; use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

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.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/

International regulations.

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3. Composition/information on ingredients

Ingredients	CAS Number	% (by weight)
Methyl acetate	79-20-9	20-24
Synthetic rubber	9003-18-3	24-30
Phenolic Resin	N/A	14-17
Acetone	67-64-1	7-10
Magnesium silicate	14807-96-6	7-10
Aluminum powder	7429-90-5	5-7
t-Butyl acetate	540-88-5	3-4
Mineral spirits	8052-41-3	1.8-2.1
Hydrated amorphous silica	7631-86-9	1-2
Xylenes, mixed isomers	1330-20-7	0.6-0.8
Ethylbenzene	100-41-4	0.1-0.2
Polymeric phenolic antioxidant	68610-51-5	0.1-0.3
Formaldehyde	50-00-0	0.001-0.006

VOC Content 70 g/l (3.2 %)

4. First aid measures

Description of first aid measures

Inhalation:

Remove to fresh air and keep at rest in apposition 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position Maintain an open airway. Loosen tight clothing such as a collar, tie belt or waistband.

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.

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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 foamr. 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.

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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 Remarks: 10% LEL

TWA 200 ppm – OSHA STEL 1000 ppm – OSHA **8052-41-3 mineral spirits**

REL $350 \text{ mg/m}^3 - \text{NIOSH TWA}$

CEIL 1800 mg/m³ – NIOSH 15 minute

TWA 500 ppm - OSHA

1330-20-7 xylenes mixed isomers

TWA 100 ppm – ACGIH

STEL 150 ppm – ACGIH 15 minute

TWA 100 ppm – OSHA

100-41-4 ethylbenzene

TWA 20 ppm – ACGIH TWA 100 ppm - OSHA

50-00-0 Formaldhyde

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STEL 2 ppm – OSHA TWA 0.75 ppm - OSHA

Ingredients with biological limit values: None known.

Additional Information: Not available...

Exposure controls

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

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select the glove material based on penetration times, rates of diffusion and degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection: Wear safety glasses with side shields or tightly sealed goggles. Wear a respirator if needed.

9. Physical and chemical properties

General information

Appearance:

Form: Liquid

Color: Silver colored

Odor: Pleasant to pungent ketone

Odor threshold: Not Determined

pH-value 7

Change in condition

Melting point/Melting range:
Boiling point/Boiling range:

Flash point:

-99 to -94 °C (-106 to -97 °F)

55 -58 °C (131 to 136 °F)

-13 to -1 °C (9 - 30 °F)

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Flammability (solid, gaseous):

Ignition temperature:

Decomposition temperature:

Auto igniting:

Not determined

Not determined

Not determined

Not determined

No data available

Explosion Limits:

Lower: 1.3 Vol % **Upper:** 12 Vol %

Vapor Pressure @ **20** °C (**68** °F) 241 hPa (181 mm Hg) **Density** @ **20** °C (**68** °F) 1.07 g/cm³ (8.92 lbs/gal

Relative densityNot determinedVapor densityNot determinedEvaporation rateNot determined

Solubility in/ Miscibility with water:Not miscible or difficult to mix

Partition coefficient (n-octanol/water): Not determined

Viscosity:

Dynamic: Not determined **Kinematic:** Not determined

 Organic solvents:
 42-46%

 VOC content
 70 g/l (3.2 %)

Other information 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, 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)

67-64-1 acetone

Oral LD50 5800 mg/kg (rat)

540-88-5 t-butyl acetate

Oral LD50 4500 mg/kg

1330-20-7 xylenes, mixed isomers

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Oral LD50 4300 mg/kg **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

100-41-4 Ethylbenzene

A3 Confirmed animal carcinogen with unknown

relevance to humans.

50-00-0 Formaldehyde

A2 Suspected human carcinogen.

1330-20-7 Xylene A4 Not classifiable as a human carcinogen.

IARC (International Agency for Research on Cancer)

100-41-4 Ethylbenzene 2B Possibly carcinogenic to humans.

50-00-0 Formaldehyde 1 Carcinogenic to humans.

1330-20-7 Xylene 3 Not classifiable as to carcinogenicity to humans.

NTP (National Toxicology Program)

50-00-0 Formaldehyde Known to be a human carcinogen. **US OSHA Specificall Regulated Substances: Potential cancer hazard**

50-00-0 Formaldehyde Potential cancer hazard.

12. Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

Other adverse effects No futher relevant information available.

13. Disposal considerations

Waste treatment methods

Recommendation:

Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Comply with applicable federal, state, and local regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

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Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

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

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

15. Regulatory information

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

Sara

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Section 355 (extremely hazardous substances):

Mixture substances are not listed.

Section 313 (Specific toxic chemical listings):

Mixture substances are not listed.

TSCA (Toxic Substance Control Act):

1330-20-7 xylenes, mixed isomers is listed.

Proposition 65

Chemicals known to cause cancer:

Mixture substances are not listed or below amounts requiring listing.

Chemicals known to cause reproductive toxicity for females:

Mixture substances are not listed or below amounts requiring listing.

Chemicals known to cause reproductive harm to males:

Mixture substances are not listed.

Chemicals known to cause developmental toxicity:

Mixture substances are not listed or below amounts requiring listing..

TLV (Theshold Limit Value established by ACGIH)

Not determined.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Mixture substances are not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Mixture substances are not listed.

GHS label elements

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

Chemical safety assesment: A chemical Safety Assesment has not been carried out.

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 4/24/2015 - 2/23/2017 - 5/24/17 - 6/2/2017 **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)

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LC50: Lethal concentration, 50 percent

LD50: Lethal Dose, 50 percent

End of SDS

The Ruscoe Company

Page 1 Date Prepared: 05/19/2017 Date Printed: 05/23/17 MSDS Reference No.: R-268

1. Identification

Material Identity

Product Name: Ruscoe WPS-GG LV

Product Number: 56076F

Generic ID: Nitrile Rubber Sealant

Company Emergency Telephone: 800-424-9300

The Ruscoe Company (Chemtrec – 24 hours/day)

485 Kenmore Blvd. Akron, Ohio 44301

Telephone: 330-253-8148 Fax: 330-253-2933

2. Hazards identification

Classification of the substance or mixture

Flammable liquids	Category 2
Serious eye damage/ eye irritation	Category 2A
Acute toxicity; inhalation	Category 4
Specific target organ toxicity – single exposure	Category 3
respiratory system, central nervous system	
Skin corrosion/irritation	Category 2
Carcingenicity: inhalation	Category 2
Specific target organ toxicity- single exposure	Category 3
respiratory tract irritation	
Specific target organ toxicity – repeated exposure	Category 2
inhalation(ears)	
Aspiration hazard	Category 1

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







The Ruscoe Company

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Signal Word: Danger **Hazard statements**

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H332 Harmful if inhaled

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness

Precautionary statements

Prevention

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
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
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P233	Keep container tightly closed.
_	

Response

P370+P378 In case of fire; use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

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.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/

International regulations.

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3. Composition/information on ingredients

Ingredients	CAS Number	% (by weight)
Methyl acetate	79-20-9	30-36
Synthetic rubber	9003-18-3	12-17
Acetone	67-64-1	11-16
Hydrocarbon resin	68478-07-9	9-11
t-Butyl acetate	540-88-5	4-7
Titanium dioxide	13463-67-7	3-5
Copolymer of vinyl chloride + vinyl acetate	N/A	3-4
Xylenes, mixed isomers	1330-20-7	2-4
Magnesium silicate	14807-96-6	1-3
Hydrated amorphous silica	7631-86-9	1-3
Ethylbenzene	100-41-4	0.4-1.2
Polymeric phenolic antioxidant	68610-51-5	0.1-0.2

VOC Content 90 g/l (3.9 %)

4. First aid measures

Description of first aid measures

Inhalation:

Remove to fresh air and keep at rest in apposition 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position Maintain an open airway. Loosen tight clothing such as a collar, tie belt or waistband.

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.

Indication of any immediate medical attention and special treatment needed

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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 foamr. 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.

Protect against electrostatic charges.

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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 Remarks: 10% LEL

TWA 200 ppm – OSHA STEL 1000 ppm – OSHA

1330-20-7 xylenes mixed isomers

TWA 100 ppm – ACGIH

STEL 150 ppm – ACGIH 15 minute

TWA 100 ppm - OSHA

100-41-4 ethylbenzene

TWA 20 ppm – ACGIH TWA 100 ppm - OSHA

Ingredients with biological limit values: None known.

Additional Information: Not available..

Exposure controls

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

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

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select the glove material based on penetration times, rates of diffusion and degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection: Wear safety glasses with side shields or tightly sealed goggles. Wear a respirator if needed.

9. Physical and chemical properties

General information

Appearance:

Form: Liquid

Color: White colored

Odor: Pleasant to pungent ketone

Odor threshold: Not Determined

pH-value 7

Change in condition

Melting point/Melting range: -99 to -94 °C (-106 to -97 °F) Boiling point/Boiling range: 55 -58°C (131 to 136°F)

Flash point: $-13 \text{ to } -1^{\circ}\text{C } (9 - 30^{\circ}\text{F})$

Flammability (solid, gaseous):

Ignition temperature:

Decomposition temperature:

Auto igniting:

Not determined

Not determined

Not determined

Not data available

Explosion Limits:

Lower: 1.3 Vol % **Upper:** 12 Vol %

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 Vapor Pressure @ 20 °C (68 °F)
 241 hPa (181 mm Hg)

 Density @ 20 °C (68 °F)
 0.97 g/cm³ (8.07 lbs/gal)

Relative densityNot determinedVapor densityNot determinedEvaporation rateNot determined

Solubility in/ Miscibility with water: Not miscible or difficult to mix

Partition coefficient (n-octanol/water): Not determined

Viscosity:

Dynamic: Not determined **Kinematic:** Not determined

Organic solvents: 55-60

VOC content 90 g/l (3.9 %)

Other information 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, 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)

67-64-1 acetone

Oral LD50 5800 mg/kg (rat)

540-88-5 t-butyl acetate

Oral LD50 4500 mg/kg

1330-20-7 xylenes, mixed isomers

Oral LD50 4300 mg/kg **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

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100-41-4 Ethylbenzene A3 Confirmed animal carcinogen with unknown

relevance to humans.

1330-20-7 Xylene A4 Not classifiable as a human carcinogen.

IARC (International Agency for Research on Cancer)

100-41-4 Ethylbenzene 2B Possibly carcinogenic to humans.

1330-20-7 Xylene 3 Not classifiable as to carcinogenicity to humans.

NTP (National Toxicology Program)

None known.

US OSHA Specificall Regulated Substances: Potential cancer hazard

None known.

12. Ecological information

Toxicity

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

540-88-5 t-butyl acetate

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

EC50 (Pseudokirchneriella subcapitala (green algae)) 64 mg/l 96h

NOEC: 2.3mg/l

Activated sludge 1.5 mg/l respiration inhibition

1330-20-7 xylenes, mixed isomers

EC50 (Cypris subglobosa) fresh water 90 mg/l 48h acute

LC50 (Palaemonetes pugio - adult):marine water 8.5 ppm 48h acute

LC50 (Lepomis macrochirus – juvenile(fledging, hatchling,weanling) fresh water 15700ug/l 96h acute

LC50 (Lepomis macrochirus) fresh water 19000ug/l 96h acute

LC50 (Pimephales promelas) fresh water 13400 ug/l 96 h acute

LC50 (Carassis auratus) fresh water 16940 ug/l 96 h acute

100-41-4 ethylbenzene

EC50 (Pseudokirchneriella subcapitata) fresh water 4600ug/l 72 h acute

EC50 (Pseudokirchneriella subcapitata) fresh water 3600ug/l 96 h acut

EC50 (Daphnia magna - neonate) fresh water 2930 ug/l 48 h acute

LC50 (Americamysis bahia) marine water 5200 ug/l 48 h acute

LC50 (Oncorhynchus mykiss) fresh water 4200ug/l 96 h acute

NOEC (Pseudokirchneriella subcapitata) fresh water 1000 ug/l 96 h chronic

Persistence and degradability

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

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

Bioaccumulative potential

1330-20-7 xylenes, mixed isomers: Log Pow 3.12, BCF 8.1 - 25.9, Potential low.

100-41-4 ethylbenzene: log Pow 3.6, Potential low

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Results of PBT and vPvB assessment

PBT: No data available. **vPvB:** No dat available.

Other adverse effects No futher relevant information available.

13. Disposal considerations

Waste treatment methods

Recommendation:

Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Comply with applicable federal, state, and local regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

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

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IMDG< IATA</th>Not determinedClassNot determinedLabelNot determined

Packing group

DOT, ADR, IMDG, IATA

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

15. Regulatory information

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

Sara

Section 355 (extremely hazardous substances):

Mixture substances are not listed.

Section 313 (Specific toxic chemical listings):

Mixture substances are not listed.

TSCA (Toxic Substance Control Act):

1330-20-7 xylenes, mixed isomers is listed.

Proposition 65

Chemicals known to cause cancer:

75-07-0 acetaldehyde

75-01-4 vinyl chloride.

Chemicals known to cause reproductive toxicity for females:

Mixture substances are not listed or below amounts requiring listing.

Chemicals known to cause reproductive harm to males:

Mixture substances are not listed.

Chemicals known to cause developmental toxicity:

Mixture substances are not listed or below amounts requiring listing..

TLV (Theshold Limit Value established by ACGIH)

Not determined.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Mixture substances are not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Mixture substances are not listed.

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GHS label elements

The mixture is classified and labeled according to the Globally Harmonized System (GHS) **Chemical safety assessment:** A chemical Safety Assessment has not been carried out.

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 9/9/2015 – 2/24/2017- 5/19/2017

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

LD50: Lethal Dose, 50 percent

End of SDS