1. Identification

Material Identity
Product Name: Ruscoe Aeroseal Low VOC Black
Product Number: 56613A
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, oral: Category 4
- Acute toxicity; inhalation: Category 4
- Specific target organ toxicity – single exposure: Category 3
- Respiratory system, central nervous system: Category 3
- Skin corrosion/irritation: Category 1
- Germ cell mutagenicity: Category 2
- Toxic to reproduction – fertility: Category 2
- Toxic to reproduction – unborn child: Category 2
- Specific target organ toxicity – repeated exposure: Category 2

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
Signal Word:  Danger

Hazard statements
H225 Highly flammable liquid and vapor.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness
H341 Suspected of causing genetic defects.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

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
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
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.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area
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+311+330+331 IF SWALLOWED: Immediately call a poison center or physician. Rinse mouth, Do not induce vomiting
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.

Continued on next page
SAFETY DATA SHEET

The Ruscoe Company

Page 3

Date Prepared: 10/19/2015
Date Printed: 10/21/15
MSDS Reference No.: R-263

P403+P235  Store in a well-ventilated place. Keep cool.

Disposal

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

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS Number</th>
<th>% (by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>45-55</td>
</tr>
<tr>
<td>Methyl acetate</td>
<td>79-20-9</td>
<td>25-31</td>
</tr>
<tr>
<td>Synthetic rubber</td>
<td>9003-18-3</td>
<td>8-10</td>
</tr>
<tr>
<td>Phenolic resin</td>
<td>N/A</td>
<td>6-8</td>
</tr>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>1-3</td>
</tr>
<tr>
<td>Copolymer of vinyl acetate + vinyl chloride + dicarbonic acid</td>
<td>N/A</td>
<td>1-2</td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>&lt;0.8</td>
</tr>
<tr>
<td>Bisphenol A – Epichlorohydrin Polymer</td>
<td>25068-38-6</td>
<td>0.7-0.8</td>
</tr>
<tr>
<td>o-Cresol</td>
<td>95-48-7</td>
<td>0.2-0.5</td>
</tr>
<tr>
<td>Polymerized 1,2-dihydro-2,2,4-trimethylquinoline</td>
<td>26780-96-1</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>0.1-0.2</td>
</tr>
</tbody>
</table>

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. Chemical burns must be treated promptly by a physician. 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

Continued on next page
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 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 must 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**
Avoid breathing mists or vapors. Avoid contact with eyes and prolonged contact with the skin.
Do not taste or swallow. Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling. Keep away from heat, sparks and open flame. Open and handle receptacle with care. Prevent formation of aerosols.
Information about protection against explosions and fire:
Keep in a well ventilated place. 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:

<table>
<thead>
<tr>
<th>Component</th>
<th>TWA (ppm)</th>
<th>STEL (ppm)</th>
<th>REL (ppm)</th>
<th>PEL (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>500</td>
<td>750</td>
<td>250</td>
<td>1000</td>
</tr>
<tr>
<td>Methyl acetate</td>
<td>200</td>
<td>250</td>
<td></td>
<td>200</td>
</tr>
<tr>
<td>Phenol</td>
<td>5</td>
<td>5</td>
<td>15.6</td>
<td>5</td>
</tr>
<tr>
<td>Methanol</td>
<td>200</td>
<td>250</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>O-cresol</td>
<td>2.3</td>
<td></td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>0.3</td>
<td>0.75</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Continued on next page
TWA 0.016 ppm – NIOSH REL 10 hrs
CEIL 0.1 ppm – NIOSH REL 15 min

**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:** Amber colored
- **Odor:** Pleasant to pungent ketone
- **Odor threshold:** Not determined
- **pH-value:** Not determined

**Change in condition**
- **Melting point/Melting range:** -99 to -94 °C (-166 to -141 °F)
- **Boiling point/Boiling range:** 55 to 58°C (131 to 136°F)
- **Flash point:** -13 to -1°C (9 to 30°F)
SAFETY DATA SHEET

The Ruscoe Company

Page 7

Date Prepared: 10/19/2015
Date Printed: 10/21/15
MSDS Reference No.: R-263

Flammability (solid, gaseous): Not applicable.
Ignition temperature: 465°C (869 °F)
Decomposition temperature: Not determined
Auto igniting: Not determined
Danger of explosion: 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) 1.04 g/cm³ (8.64 lbs/gal)
Relative density Not determined
Vapor density Not determined
Evaporation rate Not 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: 80-82

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, electrostatic discharges 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:
67-64-1 acetone
Oral LD50 5800 mg/kg (rat)
79-20-9 methyl acetate
Oral LD50 6482 mg/kg (rat) (highest dose tested)
108-95-2 Phenol
Inhalation LC 50 316 mg/m³ (rat) vapor 4 hrs
Inhalation LC50 0.9 mg/l (rat) vapor 8 hrs
Dermal LD 50 630 mg/kg (rabbit)

Continued on next page
Dermal LD 50 660 mg/kg (rat)
Dermal LD 50 <707 mg/kg (rat)
Oral LD 50 317 mg/kg (rat)
Oral LD 50 340 mg/kg (rat)
Oral LD 50 <650 mg/kg (rat)

67-56-1 methanol
Oral LD50 5600 mg/kg (rat)
Dermal LD 50 17100 mg/kg (rabbit)
Inhalation LC 50 64000 ppm (rat) 4 hr

95-48-7 o- cresol
Dermal LD 50 890 mg/kg (rabbit)
Dermal LD 50 620 mg/kg (rat)
Oral LD 50 1350 mg/kg (rat)

**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
50-00-0 formaldehyde
IARC (International Agency for Research on Cancer)
50-00-0 formaldehyde.
NTP (National Toxicology Program)
50-00-0 formaldehyde
US OSHA Specifically Regulated Substances: Potential cancer hazard
50-00-0 formaldehyde  potential carcinogen above 0.5 ppm.

12. Ecological information
Toxicity
67-64-1 acetone
LC50 (Onocorhynchus 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

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

108-95-2 phenol
EC50 (Pseudokirchneriella subcapitata (algae)) fresh water 61.1 ug/l 96h acute
EC50 (Hormosira banksii – Gamete (algae)) marine water 36 mg/l 72h acute
EC 50 (Lemna aequinoctialis (aquatic plants)) fresh water 94 mg/l 96 h acute
EC 50 (Daphnia magna (Daphnia)) fresh water 4200 ug/l 48 h acute
LC 50 (Archeomysis kokuboi – juvenile(fledging, hatchling, weanling) marine water 48 h
LC 50 (fish) 5.4 mg/l 48 h acute
LC 50 (Cyprinus carpio – larvae (fish)) fresh water 1.75 ug/l 96 h acute
EC 10 (Pseudokirchnerielle subcapitata – exponential growth phase Algae)) fresh water 969 ug/l 48 h chronic
NOEC (Daphnia magna (Daphnia)) fresh water 1.5 mg/l 21 days chronic
NOEC (Oncorhynchus mykiss (fish)) fresh water 118 ug/l 90 days chronic
67-56-1 methanol
EC50 (Daphnia magna) > 10000 mg/l 48 h
EC50 (Pseudokirchneriella subcapitata (algae)) 22000 mg/l 96 h
95-48-7 o-cresol
EC50 (Selenastrum sp. (algae)) fresh water 1000000 ug/l 72 h acute
EC50 (Selenastrum sp. (algae)) fresh water 1000000 ug/l 96 h acute
LC 50 (Elasmopus pectenicrus – adult) marine water 11800 ug/l 48 h acute
LC 50 ((Daphnia magna(daphnia)) fresh water 5000 ug/l 48 h acute
LC50 (Oncorhynchus mykiss (fish)) fresh water 8400ug/l 96 h acut

Persistence and degradability
79-20-9 methyl acetate: 70% (28 d)
67-64-1 acetone: Readily biodegradable. Biodegradation 78% OECD 301 D
67-56-1 methanol: 95% (20 d)

Bioaccumulative potential
95-48-7 o-cresol: log Pow 1.95, BCF 10.7, Potential low

Mobility in soil No further relevant information available.

Additional ecological information:
General notes:
Results of PBT and vPvB assessment
PB: No data available.
vPB: No dat available.
Other adverse effects No further 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.
RCRA Toxic hazardous waste “U” list

Continued on next page
108-95-2 phenol: listed, U188
95-48-7 o-cresol: listed, U052

14. Transport information

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>DOT, ADR, IMDG, IATA UN1133</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Adhesives, containing a flammable liquid.</td>
</tr>
<tr>
<td>ADR</td>
<td>Not determined</td>
</tr>
<tr>
<td>IMDG, IATA</td>
<td>Not determined</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>DOT</td>
</tr>
<tr>
<td>Class</td>
<td>Flammable liquids.</td>
</tr>
<tr>
<td>Label</td>
<td>3</td>
</tr>
<tr>
<td>ADR</td>
<td>Not determined</td>
</tr>
<tr>
<td>Class</td>
<td>Not determined</td>
</tr>
<tr>
<td>IMDG&lt; IATA</td>
<td>Not determined</td>
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<td>Class</td>
<td>Not determined</td>
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<td>Label</td>
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<td>Packing group</td>
<td>DOT, ADR, IMDG, IATA II</td>
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<tr>
<td>Environmental hazards:</td>
<td></td>
</tr>
<tr>
<td>Marine pollutant:</td>
<td>No</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Warning: Flammable liquids</td>
</tr>
<tr>
<td>Danger code (Kemler)</td>
<td>33</td>
</tr>
<tr>
<td>EMS Number:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

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

Continued on next page
Section 302 (extremely hazardous substances):
108-95-2 phenol: 1-3%.
95-48-7 o-cresol: 0.2-0.5%.

Section 311 (Clean Water Act)
108-95-2 phenol, 95-48-7 o-cresol, 50-00-0 formaldehyde, Proprietary

Section 313 (Specific toxic chemical listings):
108-95-2 phenol: 1-3%.
95-48-7 o-cresol: 0.2-0.5%.

TSCA (Toxic Substance Control Act):
All substances are listed or exempted.
Massachusetts: The following components are listed: PHENOL, O-CRESOL
New York: The following components are listed: Phenol, Carbolic acid, Cresols.
New Jersey: The following components are listed: PHENOL, CARBOLIC ACID, o-CRESOL, 2-METHYL PHENOL.
Pennsylvania: The following components are listed: PHENOL, PHENOL, 2-METHYL PHENOL.

Proposition 65
Chemicals known to cause cancer:
This product contains less than 0.1% of a chemical known to the State of California to cause cancer.
This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.
Formaldehyde: cancer, no significant risk level.
Methanol: Reproductive harm, maximum ingestion level 23000 ug/day, maximum inhalation level 4700 ug/day.

GHS label elements
The mixture is classified and labeled according to the Globally Harmonized System (GHS)
Chemical safety assessment: 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 10/19/2015 -
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)
SAFETY DATA SHEET

The Ruscoe Company

Date Prepared: 10/19/2015
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MSDS Reference No.: R-263

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