

SAFETY DATA SHEET

The Ruscoe Company

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

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 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



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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.

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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

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

4. First aid measures

Description of first aid measures

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

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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 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.

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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:

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

79-20-9 methyl acetate

TWA 200 ppm - ACGIH

STEL 250 ppm - ACGIH

PEL 200 ppm - OSHA

108-95-2 phenol

TWA 5 ppm – ACGIH TLV 8 hrs absorbed through the skin

TWA 5 ppm – NIOSH REL 10 hrs absorbed through the skin

CEIL 15.6 ppm – NIOSH REL 15 min absorbed through the skin

TWA 5 ppm – OSHA PEL 8 hrs absorbed through the skin

67-56-1 methanol

TWA 200 ppm – ACGIH TLV

STEL 250 ppm – ACGIH TLV

TWA 200 ppm – OSHA Table Z-1

95-48-7 o-cresol

TWA 2.3 ppm – NIOSH REL 10 hrs

TWA 20 mg/m³ ACGIH TLV 8 hrs inhalable fraction and vapor absorbed through skin

TWA 5 ppm – OSHA PEL 8 hrs absorbed through the skin

50-00-0 formaldehyde

C: 0.3 ppm – ACGIH TLV skin sensitizer

TWA 0.75 ppm – OSHA PEL Z2 8 hrs

STEL 2 ppm _ OSHA PEL Z2 15 min

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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 (-106 to -97 °F)
Boiling point/Boiling range:	55 -58°C (131 to 136°F)
Flash point:	-13 to -1°C (9 - 30°F)

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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/cm ³ (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
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, 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)

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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 (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

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

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EC 50 (Daphnia magna (Daphnia)) fresh water 4200 ug/l 48 h acute
LC 50 (Archaeomysis 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 (Pseudokirchneriella 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 100000 ug/l 72 h acute
EC50 (Selenastrum sp. (algae)) fresh water 100000 ug/l 96 h acute
LC 50 (Elasmopus pecteniscrus – 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 acute

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

108-95-2 phenol: Log Pow 1.47, BCF 647, Potential high.

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

PBT: No data available.

vPvB: No data 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

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108-95-2 phenol: listed, U188
95-48-7 o-cresol: listed, U052

14. Transport information

UN-Number

DOT, ADR, IMDG, IATA

UN1133

UN proper shipping name

DOT

Adhesives, containing a flammable liquid.

ADR

Not determined

IMDG, IATA

Not determined

Transport hazard class(es)

DOT



Class

3 Flammable liquids.

Label

3

ADR

Not determined

Class

Not determined

IMDG< IATA

Not determined

Class

Not determined

Label

Not determined

Packing group

DOT, ADR, IMDG, IATA

II

Environmental hazards:

Marine pollutant:

No

Special precautions for user

Warning: Flammable liquids

Danger code (Kemler)

33

EMS Number:

Not applicable.

Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code

Not applicable.

Transport/Additional information:

DOT

Remarks:

ERG Guide Number: 128

UN "Model Regulation":

UN1133, Adhesives, 3, II

15. Regulatory information

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

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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, Carboic 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 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 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)

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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