1. Identification

Material Identity
Product Name: Ruscoe Animal ID Tag Cement CT-0106
Product Number: 55714P
Generic ID: SBR Cattle Tag Adhesive

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 2B
Specific target organ toxicity – single exposure (narcotic effects)	Category 3
Skin corrosion/irritation	Category 2
Specific target organ toxicity - repeated exposure (oral)	Category 3
Specific target organ toxicity – repeated exposure (inhalation)	Category 2
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

Signal Word: Danger
Hazard statements

Continued on next page

H225 Highly flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315+H320 Causes skin and eye irritation.
H336 May cause drowsiness or dizziness
H361 Suspected of damaging fertility if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
H373 may cause damage to organs through prolonged or repeated exposure if swallowed.

Precautionary statements

Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces.- No smoking
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe 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.

Response

P301+P311 If SWALLOWED: Immediately call a PIOSON CENTER or physician.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 If exposed or concerned: get medical attention.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical attention.
P337+P313 If eye irritation persists: Get medical attention.

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.

Continued on next page

3. Composition/information on ingredients

Ingredients	CAS Number	% (by weight)
Rosin Ester	Proprietary	35-45
Synthetic rubber	9003-55-8	15-20
n-Hexane	110-54-3	14-32
Hexane, other isomers	Mixture	11-27
Methylcyclopentane	96-37-7	4-14
Calcium carbonate	1317-65-3	1-2
Heptane	142-82-5	0.1-0.5
Cyclohexane	110-72-7	0.1-0.5
Distillates(petroleum), hydrotreated heavy paraffinic	64742-54-7	0-2
Distillates(petroleum), hydrotreated light paraffinic	64742-55-8	0-2

VOC Content 345 g/l

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 and get medical attention immediately. 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: Get medical attention immediately. Call a poison control center or physician immediately. Was out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms and effects, both acute and delayed

Continued on next page

Potential acute health effects

Inhalation: Can cause central nervous system(CNS) depression. May cause drowsiness and dizziness.

Skin contact: Causes skin irritation.

Eye contact: Causes eye irritation.

Ingestion: Can cause central nervous system(CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat, and stomach.

Over-exposure signs/symptoms

Inhalation: Adverse symptoms may include the following: nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, and unconsciousness.

Skin contact: Adverse symptoms may include the following: irritation and redness.

Eye contact: Adverse symptoms may include the following: pain or irritation, watering, and redness..

Ingestion: Adverse symptoms may include the following: nausea or vomiting.

Indication of any immediate medical attention and special treatment needed

Notes to physician:

If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

Specific treatments: Treat symptomatically and supportively.

Protection of first aiders:

No action shall be taken involving any personal risk or without suitable training. If it suspected that gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See section 11 for toxicological information.

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5. Fire-fighting measures

Extinguishing media

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

For safety reasons unsuitable extinguishing agents: Solid **w**ater 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: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action should be taken involving any personal risk or without suitable training. Move containers from the fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous thermal decomposition products: Carbon dioxide, carbon monoxide.

Continued on next page

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:

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with liquid-binding material (ie. Sand, diatomite, dry earth, acid binders, or other non-combustible material) and place in suitable appropriate waste disposal container. 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. Do not get in the eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Store and use away from heat, sparks, open flame or any other ignition source. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers contain product residue and may be hazardous. Always bond receiving containers to the fill pipe. 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.

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.

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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:

110-54-3 n-hexane

TWA 50 ppm – ACGIH 8 hours
Skin Absorbed through skin - ACGIH
PEL 500 ppm – OSHA 8 hours
PEL 1800 mg/m^3 – OSHA 8 hours

Mixture hexane, other isomers

TWA 500 ppm – ACGIH 8 hours
STEL 1000 ppm – ACGIH 15 minutes

96-37-7 methylcyclopentane

TWA 500 ppm – ACGIH 8 hours TWA
1760 mg/m^3 – NIOSH 8hours STEL
1000 ppm – ACGIH 15 minutes STEL
3500 mg/m^3 – ACGIH 15 minutes

142-82-5 heptane

TWA 400 ppm – ACGIH 8 hours TWA
1640 mg/m^3 – ACGIH 8 hours STEL
500 ppm – ACGIH 15 minutes STEL
2050 mg/m^3 – ACGIH 15 minute

110-82-7 cyclohexane

TWA 100 ppm – ACGIH 8 hours
TWA 300 ppm – OSHA 8 hours
TWA 1050 mg/m^3 – OSHA 8 hours

64742-54-7 distillates(petroleum) hydrotreated heavy paraffinic

TWA 10 mg/m^3 – ACGIH
TWA 5 mg/^{m3} - OSHA

64742-55-8 distillates (petroleum) hydrotreated light paraffinic

TWA 10 mg/m^3 – ACGIH
TWA 5 mg/^{m3} - 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:

Use a properly fitted, air-purifying or supplied-air complying with an approved standard if a risk assessment indicates that this is necessary. Respirator selection must be based on known

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or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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.

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9. Physical and chemical properties

General information

Appearance:	
Form:	Liquid
Color:	Tan colored
Odor:	Characteristic hydrocarbon solvent odor.
Odor threshold:	Not Determined
pH-value	Not available
Change in condition	
Melting point/Melting range:	-96 to -94 ^{o}C (-141 to -137 ^{o}F)
Boiling point/Boiling range:	66 -70^{o}C (151 to 158^{o}F)
Flash point:	-18 ^{o}C (0^{o}F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	252^{o}C (486 ^{o}F)
Decomposition temperature:	Not determined
Auto igniting:	Not determined
Danger of explosion:	No data available
Explosion Limits:	
Lower:	1 Vol %
Upper:	7.4 Vol %
Vapor Pressure @ 20 ^{o}C (68 ^{o}F)	18.7 kPa (140 mm Hg)
Density @ 20 ^{o}C (68 ^{o}F)	0.84 g/cm^{3} (7.04 lbs/gal

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Relative density	Not determined
Vapor density	3 (Air=1)
Evaporation rate	8.1 (n-butyl acetate=1)
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:	38-42%
VOC content	345 g/l
Other information	No further relevant information available.

10. Stability and reactivity

Reactivity Stable under normal conditions.
Chemical stability: The product is stable
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. Avoid all possible sources of ignition. Do not allow vapor to accumulate in low or confined areas. .
Incompatible materials: Strong reducing agents and strong oxidizing agents.
Hazardous decomposition products: Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion.

11. Toxicological information

Information on toxicological effects
Acute toxicity:
LD/LC50 values that are relevant for classification:
110-54-3 n-hexane
Inhalation LC50 48000 ppm (rat) gas 4h
Oral LD50 15840 mg/kg (rat) **Mixture**
hexane, other isomers Inhalation LC50
48000 ppm (rat) gas 4h Dermal LD50
>2000 mg/kg (rabbit)
Oral LD50 >5000 mg/kg (rat)
110-82-7 cyclohexane
Inhalation vapor 70000 mg/m^3 (mouse) 2h
Oral LD50 6240 mg/kg (Rat)
Oral LD50 12705 mg/kg (Rat)
Oral LD50 >5000 mg/kg (Rat)
Proprietary rosin ester
Dermal LD50 >2000 mg/kg14days(New Zealand white rabbit)at this dose no death occurred.

Continued on next page

Oral LD50 >2000 mg/kg 14days(New Zealand white rabbit)At this dose no death occurred.
Primary irritant effect:
On the skin: Mild irritant effect.
On the eye: Causes eye irritation.
Sensitization: No sensitizing effects known.
Additional toxicological information:
Carcinogenic categories
ACGIH Carcinogens
No additional information.
IARC (International Agency for Research on Cancer)
No additional information.
NTP (National Toxicology Program)
No additional information.
US OSHA Specifically Regulated Substances: Potential cancer hazard
No additional information

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 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.

14. Transport information

UN-Number
DOT, ADR, IMDG, IATA UN1133

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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
Sara
Section 355 (extremely hazardous substances):
Mixture substances are not listed.
Section 313 (Specific toxic chemical listings):
110-54-3 n-hexane <32%
110-82-7 cyclohexane <0.5%
TSCA (Toxic Substance Control Act):

Continued on next page

110-54-3 n-hexane <32%
110-82-7 cyclohexane <0.5%

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 (Threshold 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.

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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 7/10/2015 -

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)
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