Safety Data Sheet

Material Name: CCW 705
Part No's: 305304, 305307, 305310, 305313, 305316, 305319, 305323

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
CCW 705

Synonyms
Self-Adhering Rubberized Asphalt Membrane

Chemical Family
Rubber Asphalt products

Product Use
Waterproofing airbarrier membrane

Restrictions on Use
For industrial use only.

Manufacturer Information
Carlisle Coatings and Waterproofing, Inc
900 Hensley Lane
Wylie, TX 75098
www.carlisleccw.com

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Skin Corrosion/Irritation - Category 2
Reproductive Toxicity - Category 1B
Specific Target Organ Toxicity - Single Exposure - Category 2 ( liver, kidneys, thymus )

GHS Label Elements

Symbol(s)

Signal Word
Danger

Hazard Statement(s)
Causes skin irritation
May damage fertility or the unborn child
May cause damage to organs

Precautionary Statement(s)

Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapours/spray
Wash thoroughly after handling
Do not eat, drink or smoke when using this product

Response
If exposed or concerned: Call a POISON CENTER or doctor/physician
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Specific treatment (see label)

Storage
Store locked up

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations

Other Hazards
No additional information available.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-52-5</td>
<td>Distillates, petroleum, hydrotreated heavy naphthenic</td>
<td>5-10</td>
</tr>
<tr>
<td>8052-42-4</td>
<td>Asphalt</td>
<td>0-75</td>
</tr>
<tr>
<td>64742-93-4</td>
<td>Asphalt, oxidized</td>
<td>0-75</td>
</tr>
<tr>
<td>68955-27-1</td>
<td>Distillates, petroleum, petroleum residues vacuum</td>
<td>0-75</td>
</tr>
<tr>
<td>64741-56-6</td>
<td>Residues, petroleum, vacuum</td>
<td>0-75</td>
</tr>
<tr>
<td>Mixture</td>
<td>Fatty acids, tall-oil, low-boiling</td>
<td>0.8</td>
</tr>
</tbody>
</table>
Section 4 - FIRST AID MEASURES

Description of Necessary Measures
If exposed or concerned: Call a POISON CENTER or doctor/physician.

Inhalation
Inhalation unlikely due to physical form. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin
Wash exposed skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.

Eyes
Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion
Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically and supportively.

Most Important Symptoms/Effects
Acute
Causes skin irritation. May cause damage to the kidneys, liver, thymus.

Delayed
May damage fertility or the unborn child.

Note to Physicians
Contains ASPHALT.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media
Use carbon dioxide, regular dry chemical, regular foam or water.

Unsuitable Extinguishing Media
None known.

Special Hazards Arising from the Chemical
Slight fire hazard.

Hazardous Combustion Products
Oxides of carbon, hydrocarbons

Special Protective Equipment and Precautions for Firefighters
Safety Data Sheet

Material Name: CCW 705

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up
Remove all sources of ignition. Avoid inhalation of material or combustion by-products. Ventilate affected area. Absorb with earth, sand or other non-combustible material and transfer to container. Dispose in accordance with all applicable regulations.

Environmental Precautions
Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin and clothing. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. KEEP OUT OF REACH OF CHILDREN.

Conditions for Safe Storage, Including any Incompatibilities
Store locked up
Store in a cool, dry place. Keep container tightly closed and in a well-ventilated place. Keep away from heat and ignition sources. Keep away from incompatible materials. Do not cut, puncture, or weld on or near this container.

Incompatible Materials
Strong acids, strong oxidizing agents

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>0.5 mg/m³ TWA as benzene soluble aerosol fume, inhalable fraction</td>
</tr>
<tr>
<td>ACGIH</td>
<td>5 mg/m³ Ceiling fume 15 min</td>
</tr>
<tr>
<td>Mexico</td>
<td>5 mg/m³ TWA LMPE-PPT 10 mg/m³ STEL [LMPE-CT]</td>
</tr>
</tbody>
</table>
Hydrogen sulfide  7783-06-4

ACGIH: 1 ppm TWA  5 ppm STEL

NIOSH: 10 ppm Ceiling 10 min; 15 mg/m³ Ceiling 10 min

100 ppm IDLH

Europe: 5 ppm TWA; 7 mg/m³ TWA  10 ppm STEL; 14 mg/m³ STEL

OSHA (US): 20 ppm Ceiling

Mexico: 10 ppm TWA LMPE-PPT; 14 mg/m³ TWA LMPE-PPT

15 ppm STEL [LMPE-CT]; 21 mg/m³ STEL [LMPE-CT]

Biological limit value
There are no biological limit values for any of this product's components.

Engineering Controls
Provide adequate ventilation. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection
Wear safety glasses or safety goggles, with a faceshield, as appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection
Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Recommended material: protective skin cream.

Respiratory Protection
A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Glove Recommendations
Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Black rubberized asphalt on a blue HDPE film</th>
<th>Physical State</th>
<th>solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Slight, petroleum</td>
<td>Color</td>
<td>Black on blue film</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
<td>pH</td>
<td>Not available</td>
</tr>
</tbody>
</table>
### Melting Point
Not available

### Freezing point
Not available

### Boiling Point Range
Not available

### Autoignition
Not available

### Lower Explosive Limit
Not available

### Upper Explosive Limit
Not available

### Vapor Density (air=1)
Not available

### Water Solubility
Negligible

### Viscosity
Not available

### Density
1 - 1.2 (relative)

### Boiling Point
Not available

### Evaporation Rate
<0.01

### Flammability (solid, gas)
Not available

### Flash Point
232°C (>450 °F)

### Decomposition
Not available

### Vapor Pressure
Not available

### Specific Gravity (water=1)
Not available

### Partition coefficient: n-octanol/water
Not available

### Solubility (Other)
Not available

### Section 10 - STABILITY AND REACTIVITY

**Reactivity**
No reactivity hazard is expected.

**Chemical Stability**
Stable under normal conditions of use.

**Possibility of Hazardous Reactions**
Hazardous polymerization will not occur.

**Conditions to Avoid**
Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**Incompatible Materials**
Strong acids, strong oxidizing agents

**Hazardous decomposition products**
Oxides of carbon, hydrocarbons

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**Section 11 - TOXICOLOGICAL INFORMATION**

**Information on Likely Routes of Exposure**
Inhalation
Not a likely route of exposure.

Skin Contact
Causes skin irritation.

Eye Contact
May cause mild eye irritation.

Ingestion
May cause gastrointestinal irritation.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:

- Asphalt (8052-42-4)
  - Oral LD50 Rat >5000 mg/kg
  - Dermal LD50 Rabbit >2000 mg/kg

- Asphalt, oxidized (64742-93-4)
  - Oral LD50 Rat >5000 mg/kg
  - Dermal LD50 Rabbit >2000 mg/kg

- Distillates, petroleum, petroleum residues vacuum (68955-27-1)
  - Oral LD50 Rat 4320 mg/kg
  - Dermal LD50 Rabbit >2000 mg/kg

- Residues, petroleum, vacuum (64741-56-6)
  - Oral LD50 Rat 4320 mg/kg
  - Dermal LD50 Rabbit >2000 mg/kg

- Hydrogen sulfide (7783-06-4)
  - Inhalation LC50 Rat 0.99 mg/L 1 h

- Fatty acids, tall-oil, low-boiling (Mixture)
  - Oral LD50 Rat >2000 mg/kg
  - Dermal LD50 Rat >2000 mg/kg

Immediate Effects
Causes skin irritation. May cause damage to the kidneys, liver, thymus.

Delayed Effects
May damage fertility or the unborn child.

Irritation/Corrosivity Data
May cause mild skin irritation. May cause mild eye irritation. May cause respiratory irritation.

Respiratory Sensitization
No data available.

Dermal Sensitization
No data available.

Component Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
</tr>
</tbody>
</table>
Safety Data Sheet

Material Name: CCW 705

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC:</td>
<td>Monograph 103 [2013]; Supplement 7 [1987] (extracts of steam-refined and air-refined); Monograph 35 [1985] (Group 2B (possibly carcinogenic to humans))</td>
</tr>
<tr>
<td>DFG:</td>
<td>Category 2 (considered to be carcinogenic for man, aerosol and vapor)</td>
</tr>
<tr>
<td>OSHA:</td>
<td>Present</td>
</tr>
</tbody>
</table>

Asphalt, oxidized 64742-93-4

| IARC:                        | Monograph 103 [2013] (and their emissions during roofing) (Group 2A (probably carcinogenic to humans)) |
| OSHA:                        | Present                                                          |

Residues, petroleum, vacuum 64741-56-6

| IARC:                        | Monograph 103 [2013] (Group 2B (possibly carcinogenic to humans)) |
| OSHA:                        | Present                                                          |

Polycyclic aromatic hydrocarbons 130498-29-2

| NTP:                         | Reasonably Anticipated To Be A Human Carcinogen                  |
| OSHA:                        | Present                                                          |

Germ Cell Mutagenicity
No data available.

Tumorigenic Data
No data available

Reproductive Toxicity
May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure
kidneys, liver, thymus

Specific Target Organ Toxicity - Repeated Exposure
No target organs identified.

Aspiration hazard
No data available.

Medical Conditions Aggravated by Exposure
## Section 12 - ECOLOGICAL INFORMATION

### Ecotoxicity
Avoid release to the environment.

#### Component Analysis - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Component Description</th>
<th>CAS Number</th>
<th>Aquatic Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, petroleum, hydrotreated heavy naphthenic</td>
<td>64742-52-5</td>
<td>Fish: LC50 96 h Oncorhynchus mykiss &gt;5000 mg/L</td>
</tr>
<tr>
<td>Invertebrate:</td>
<td></td>
<td>EC50 48 h Daphnia magna &gt;1000 mg/L IUCLID</td>
</tr>
<tr>
<td>Asphalt, oxidized</td>
<td>64742-93-4</td>
<td></td>
</tr>
<tr>
<td>Algae:</td>
<td></td>
<td>EC50 72 h Pseudokirchneriella subcapitata 56 mg/L IUCLID</td>
</tr>
<tr>
<td>Distillates, petroleum, petroleum residues vacuum</td>
<td>68955-27-1</td>
<td>Fish: LC50 96 h Brachydanio rerio 48 mg/L [semi-static]</td>
</tr>
<tr>
<td>Residues, petroleum, vacuum</td>
<td>64741-56-6</td>
<td>Fish: LC50 96 h Brachydanio rerio 48 mg/L [semi-static]</td>
</tr>
<tr>
<td>Hydrogen sulfide</td>
<td>7783-06-4</td>
<td>Fish: LC50 96 h Lepomis macrochirus 0.0448 mg/L [flow-through]; LC50 96 h Pimephales promelas 0.016 mg/L [flow-through]</td>
</tr>
<tr>
<td>Fatty acids, tall-oil, low-boiling</td>
<td>Mixture</td>
<td></td>
</tr>
<tr>
<td>Fish:</td>
<td>LC50 96 h Brachydanio rerio 50 - 100 mg/L [semi-static]</td>
<td></td>
</tr>
<tr>
<td>Algae:</td>
<td>EC50 72 h Pseudokirchneriella subcapitata &gt;10 mg/L IUCLID</td>
<td></td>
</tr>
<tr>
<td>Invertebrate:</td>
<td>EC50 48 h Daphnia magna 70 mg/L IUCLID</td>
<td></td>
</tr>
</tbody>
</table>

### Persistence and Degradability

No data available.

Additional Data
No additional information available.
No information available for the product.

**Bioaccumulative Potential**
No information available for the product.

**Mobility**
No information available for the product.

**Other Toxicity**
No additional information available.

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**Section 13 - DISPOSAL CONSIDERATIONS**

**Disposal Methods**
Dispose of contents/container in accordance with local/regional/national/international regulations.

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**Section 14 - TRANSPORT INFORMATION**

**US DOT Information:**
UN/NA #: Not regulated

**IATA Information:**
UN#: Not regulated

**IMDG Information:**
UN#: Not regulated

**TDG Information:**
UN#: Not regulated

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**Section 15 - REGULATORY INFORMATION**

**U.S. Federal Regulations**
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>SARA 302</th>
<th>SARA 313</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen sulfide</td>
<td>7783-06-4</td>
<td></td>
</tr>
<tr>
<td>SARA 302:</td>
<td>500 lb TPQ</td>
<td></td>
</tr>
<tr>
<td>SARA 313:</td>
<td>1 % de minimis concentration</td>
<td></td>
</tr>
</tbody>
</table>
CERCLA: 100 lb final RQ; 45.4 kg final RQ
OSHA (safety): 1500 lb TQ
SARA 304: 100 lb EPCRA RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: No Reactivity: No

U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Asphalt, oxidized</td>
<td>64742-93-4</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Hydrogen sulfide</td>
<td>7783-06-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Polycyclic aromatic hydrocarbons</td>
<td>130498-29-2</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen sulfide</td>
<td>7783-06-4</td>
</tr>
</tbody>
</table>

1 %

Component Analysis - Inventory
Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Asphalt (8052-42-4)
### Section 16 - OTHER INFORMATION
HMIS Rating

Health: 2*  Fire: 1  Reactivity: 0  
Hazard Scale: 0 = Minimal  1 = Slight  2 = Moderate  3 = Serious  4 = Severe  * = Chronic hazard

NFPA Ratings

Health: 2  Fire: 1  Reactivity: 0
Hazard Scale: 0 = Minimal  1 = Slight  2 = Moderate  3 = Serious  4 = Severe

Summary of Changes
New SDS: May 18, 2015

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; 
AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical 
Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability 
Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products 
Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - 
Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic 
Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - 
Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency 
for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil 
Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and 
Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition 
coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of L1stSM 
- ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace; 
MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute 
for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National 
Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - 
Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, 
Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund 
Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of 
Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper 
Explosive Limit; US - United States.

Other Information

Disclaimer:
The information contained herein is based upon data and information available to us, and reflects our best 
professional judgment. This product may be formulated in part with components purchased from other 
companies. In many instances, especially when proprietary or trade secret materials are used, CCWI 
Company must rely upon the hazard evaluation of such components submitted by that product’s 
manufacturer or importer. No warranty of merchantability, fitness for any use, or any other warranty is 
expressed or implied regarding the accuracy of such data or information. The results to be obtained from 
the use thereof, or that any such use does not infringe any patent, since the information contained herein 
may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do 
not assume responsibility for the results of such application. This information is furnished upon the 
condition that the person receiving it shall make his own determination of the suitability of the material 
for his particular use.