

**MATERIAL SAFETY DATA SHEET**  
**ASPHALT DRIVEWAY RUBBERIZED SEALER –**  
**PROFESSIONAL GRADE**

*Offerte en français*

<b>HEALTH CANADA</b>	<b>PROTECTIVE CLOTHING</b>	<b>TRANSPORT OF DANGEROUS GOODS</b>
NOT REGULATED		NOT REGULATED

**SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Use:** Asphalt repair and maintenance

**Formula number:** 600.1 – 601.1 – 604.1

**Manufacturer:** ExpertSeal  
 327 9th Avenue  
 Richmond (Quebec) J0B 2H0  
 CANADA  
 Tel.: 819 826-1000

**Distributor:** Action Seal  
 2885 Highway 60,  
 Dwight, ON P0A 1H0  
 CANADA  
 Tel.: 855-554-4386

**In case of emergency:**

ACTION SEAL (8:00am to 5:00pm): 1 855-554-4386 CANUTEC (Canada) (24h.): 613 996-6666 CHEMTREC (USA) (24h.): 1 800 424-9300

**EMERGENCY OVERVIEW**

Dark brown liquid with slight petroleum odour. USE WITH CARE. Follow good industrial hygiene practice. Keep container closed. Use with adequate ventilation. This product contains an ingredient known as carcinogen.

**SECTION II: COMPOSITION AND INFORMATION ON DANGEROUS INGREDIENTS**

NAME	CAS #	% WEIGHT	EXPOSURE LIMIT (ACGIH)	
			TLV-TWA	TLV-STEL
Coal Tar	65996-93-2	10-30	0.2 mg/m <sup>3</sup> Respirable fraction	Not established

**SECTION III: POTENTIAL HEALTH EFFECTS**

*Effects of Short-Term (Acute) Exposure*

**EYE CONTACT**

Exposure to coal tar fumes or vapours may cause irritation and burning to the eyes. Reversible symptoms may include irritation, a burning sensation, intolerance to light, redness/swelling/tearing, and possible erosion of the surface of the cornea. Contact with heated material may cause thermal burns. (1)

**SKIN CONTACT**

Contact of coal tar with the skin can result in irritation which, when accentuated by sunlight may result in a phototoxic skin reaction. Contact with heated material may cause thermal burns. Hot/molten refined tar is a severe burn hazard. Prolonged and repeated skin contact in the absence of recommended hygiene practices may cause acne, folliculitis and more serious skin disorders such as changes in skin pigmentation, ulcerations, benign skin growths and skin cancer. (1)

**INHALATION**

Inhalation of fumes or vapours from coal tar may cause temporary respiratory irritation. Acute respiratory effects caused by overexposure to coal tar volatiles may include coughing, sneezing, and swollen or irritated nasal mucosa or sinuses. Inhalation of fumes or vapours in significant excess of the PEL/TLV may lead to systemic symptoms such as salivation, vomiting, respiratory difficulties, headache, loss of papillary reflexes, central nervous system (CNS) effects such as dizziness, weakness, possible loss of coordination and collapse, cyanosis, hypothermia, and convulsions. (1)

**INGESTION**

Ingestion of refined tar is unlikely. If ingested, it may cause irritation of the gastrointestinal tract followed by one or more of the following effects: nausea, vomiting and abdominal discomfort. (1)

*Effects of Long-Term (Chronic) Exposure*

**EFFECTS OF CHRONIC EXPOSURE**

Individuals with chronic respiratory disorders may be more susceptible to the effects of exposure to any vapour, fume or airborne particulate matter. Individuals with pre-existing skin disorders may be more susceptible to irritation, dermatitis, and phototoxic reactions. Persons with a history of CNS functional illness may be more susceptible to the effects when working with this product. (1)

**CARCINOGENICITY**

The International Agency for Research on Cancer (IARC) has concluded that coal tar is carcinogenic to humans (Group 1). The American Conference of Governmental Industrial Hygienists (ACGIH) has designated coal tar as a confirmed human carcinogen (A1). The US National Toxicology Program (NTP) has listed coal tar as a known human carcinogen. (2)

**MUTAGENIC EFFECTS**

Available data characterizes refined coal tar as a mutagen. (1)

**TERATOGENIC EFFECTS**

None known. Although refined coal tar does contain substances considered to be reproductive hazards by the State of California, no scientific study supports an association between refined coal tar exposures and human reproductive hazards. (1)

**SENSITIZATION**

None known. (1)

**SYNERGISTIC EFFECTS**

None known. (1)

## SECTION IV: FIRST AID MEASURES

### EYE CONTACT

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

### SKIN CONTACT

Wash with soap and water. Get medical attention if irritation develops. Do not attempt to remove hot coal tar, flush skin immediately with large amounts of cold water. Do not use solvents to clean skin covered with coal tar. Vegetable oil may be used to remove coal tar residue on skin surface.

### INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### INGESTION

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

## SECTION V: FIRE FIGHTING MEASURES

**FLAMMABILITY:** May be combustible at high temperature.

**FLASH POINT:** > 104°C (Coal tar) (Tag closed tester, ASTM D-56)

**AUTO-IGNITION TEMPERATURE:** 530°C (Coal tar)

**FLAMMABILITY LIMITS IN AIR:** (% en volume) Not applicable.

### FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES

Slightly flammable to flammable in presence of open flames and sparks. Non-flammable in presence of heat.

### COMBUSTION PRODUCTS

CO<sub>2</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub> and PAH. Burning may emit hazardous fumes/vapours which can form flammable/explosive mixtures in air.

### EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES

Risks of explosion of the product in presence of mechanical impact: not available.

Risks of explosion of the product in presence of static discharge: not available.

### FIRE FIGHTING MEDIA AND INSTRUCTIONS

**SMALL FIRE:** Use dry chemical powder, CO<sub>2</sub> or sand.

**LARGE FIRE:** Use water spray, fog or foam. Do not use water jet.

### FIRE FIGHTING PROCEDURES

Wear complete fire service protective equipment, including full-face and MSHA/NIOSH approved self-contained breathing apparatus. Use water or water spray to cool fire-exposed containers and structures and to protect personnel. Water/fog can control unconfined fires, but water may cause frothing or eruption in closed tanks. Closed containers may explode when exposed to extreme heat. Liquid refined tar at elevated temperature will sustain combustion.

## SECTION VI: ACCIDENTAL RELEASE MEASURES

### SPILL AND LEAK

Avoid breathing vapours or contact with skin and eyes. Remove all ignition sources. Ventilate the area if spill occurs indoors. For solidified spills, shovel into dry, labelled containers and secure cover. Contain spilled material by dyking/berming with absorbent solids such as sand, ashes, earth or other inert material as necessary to prevent entry into sewers or open bodies of water. In cases of involving release to the environment, report to provincial authorities, municipal authorities, or both, as required.

## SECTION VII: HANDLING AND STORAGE

### HANDLING

Avoid prolonged or repeated contact with skin or breathing of fumes/vapours. Observe good personal hygiene practices and recommended procedures. Avoid contact with molten material. Wear appropriate protective equipment. Provide sufficient general or local exhaust ventilation in pattern/volume to maintain concentrations below the PEL/TLV and to maintain areas below flammable vapours concentrations. Keep container closed. Use with adequate ventilation.

### STORAGE

Store in a labelled container. Keep container tightly closed. Keep container in a cool, dry, well-ventilated area away from all sources of ignition. Protect containers from physical damage. Do not store below 4°C (39.2°F).

## SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

**EYES:** Safety glasses.

**SKIN:** Chemical resistant protective gloves, footwear and coveralls.

**RESPIRATORY:** Vapour respirator. Be sure to use an approved/certified respirator or equivalent.

**ENGINEERING CONTROLS:** Provide sufficient general or local exhaust ventilation in pattern/volume to maintain concentrations below the TLV and to maintain areas below flammable vapour concentration.

**PERSONAL PROTECTION IN CASE OF A LARGE SPILL:** Splash goggles. Full suit. Boots. Gloves. Vapour respirator. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

## SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**APPEARANCE:** Dark brown liquid with slight petroleum odour

**ODOUR THRESHOLD:** Not available

**pH (1% Soln/Water):** Neutral

**VAPOUR DENSITY (air = 1):** > 1

**VAPOUR PRESSURE (20°C) :** 0.001 kPa (0.01 mm Hg)

**EVAPORATION RATE (Butyl acetate = 1):** < 1

**BOILING/CONDENSATION POINT:** >150°C (Coal tar)

**MELTING/FREEZING POINT:** May start to solidify at 0°C (32°F) based on data for: Water

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** Weighted average: 1.01 for Regular Grade, 1.10 for Professional Grade and 1.11 for Contractor Grade.

**SOLUBILITY:** Partially soluble in cold water, hot water

**VOLATILE ORGANIC COMPOUNDS (V.O.C.):** < 50 g/l

**VOLATILITY:** 75% for Regular Grade and 65% for Contractor and Professional Grade

**VISCOSITY:** Viscous liquid

**LogK<sub>ow</sub>:** The product is more soluble in octanol; log (octanol/water) > 1

## SECTION X: STABILITY AND REACTIVITY

**STABILITY AND REACTIVITY:** This product is stable.

**CONDITIONS OF INSTABILITY:** None known.

**INCOMPATIBILITY WITH VARIOUS SUBSTANCES:** Reactive with oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not available.

**HAZARDOUS POLYMERISATION:** Will not occur.

**SECTION XI: TOXICOLOGICAL INFORMATION****TOXICOLOGICAL DATA****Coal Tar:** (2)LD<sub>50</sub> (rat): 3 300 mg/kg (conducted according to OECD guidelines)LD<sub>50</sub> (dermal, rabbit): > 5 000 mg/kg**Effects of Short-Term (Acute) Exposure****EYE IRRITATION**

In a study conducted according to an EEC directive, coal tar did not cause irritation to rabbits. No further details are available for evaluation. (2)

**SKIN IRRITATION**

In a study conducted according to an EEC directive, coal tar did not cause irritation to rabbits. No further details are available for evaluation. (2)

**SECTION XII: ECOLOGICAL INFORMATION****ENVIRONMENTAL EFFECTS**

Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities. May be harmful to aquatic life.

**SECTION XIII: DISPOSAL CONSIDERATIONS****WASTE INFORMATION**

Waste must be disposed of in accordance with federal, provincial and municipal environmental control regulations.

**Consult your local or regional authorities.**

**SECTION XIV: TRANSPORT INFORMATION**

This product is not regulated by DOT and TDG.

**SECTION XV: REGULATORY INFORMATION**

**WHMIS:** Not controlled under WHMIS (Canada).

**DSL:** All constituents of this product are included in the Domestic Substances List (DSL – Canada)

**TSCA:** All constituents of this product are included on the Toxic Substances Control Act Inventory (TSCA – United States).

**California proposition 65:** None

HMIS (USA):		NFPA (USA):	
Health	2	Health	2
Flammability	1	Flammability	1
Physical hazard	0	Instability	0
Protective equipment	G	Specific hazard	-

**SECTION XVI: OTHER INFORMATION****GLOSSARY**

<b>ANSI:</b>	American National Standards Institute
<b>CAS:</b>	Chemical Abstract Services
<b>CSA:</b>	Canadian Standardisation Association
<b>DOT:</b>	Department of Transportation
<b>EPA:</b>	Environmental Protection Agency (United States)
<b>HMIS:</b>	Hazardous Material Information System
<b>LD<sub>50</sub>/LC<sub>50</sub>:</b>	Less high lethal dose and lethal concentration published
<b>NFPA:</b>	National Fire Protection Association
<b>OSHA:</b>	Occupational Safety & Health Administration (United States)
<b>RCRA:</b>	Resource Conservation and Recovery Act (United States)
<b>TDG:</b>	Transportation of Dangerous Goods (Canada)
<b>TLV-TWA:</b>	Threshold Limit Value – Time-Weighted Average
<b>WHMIS:</b>	Workplace Hazardous Materials Information System (Canada)

**References:**

- (1) Coal tar manufacturer's Material Safety Data Sheet.
- (2) CHEMINFO (2010) Canadian Centre of Occupational Health and Safety, Hamilton (Ontario) Canada.

**Code of MSDS:** CA U DRU SS FS 128  
**For more information:** 1 800 567-1492

The Material Safety Data Sheets of RESISTO Canada are available on Internet at the following site: [www.resisto.ca](http://www.resisto.ca)

**Justification of the update:**

- Triennial update.

This MSDS contains all the information required by ANSI Z400.1 standard (United States), by regulation 29 CFR Part. 1910-1200 of the Hazard Communication Standard of OSHA and is in accordance with standard DORS/88-66 of WHMIS (Canada).

**To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**

**Bar codes:**

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