



GARDNER-GIBSON
 4161 E. 7th AVENUE
 TAMPA, FL, 33605
 USA
 813-248-2101

PRODUCT: BLACK JACK DRIVE-SEAL 200 DRIVEWAY SEALER

CODE: 6451

SECTION 01: IDENTIFICATION

Supplier identifier..... Gardner-Gibson
 4161 E. 7th Avenue
 Tampa, FL 33605
 USA
 813-248-2101

Product identifier..... BLACK JACK DRIVE-SEAL 200 DRIVEWAY SEALER
 Product code..... 6451
 Product use..... Filler and sealant for asphalt pavements and driveways.
 Emergency telephone number..... CANUTEC 24-hour number (613-996-6666). CHEMTREC 1-800-424-9300.

SECTION 02: HAZARD IDENTIFICATION



Hazard classification..... Carcinogenicity - Category 1. Specific Target Organ Toxicity — Repeated Exposure — Category 1 (lungs).
 Signal word..... DANGER.
 Hazard statement..... H350 May cause cancer by inhalation. H372 Causes damage to organs (lungs) through prolonged or repeated exposure.
 Precautionary statements..... P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection. P260 Do not breathe dust/fume/mist/vapours. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P308+P313 IF exposed or concerned: Get medical advice/attention. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.
 Other hazards..... None.
 Comments..... This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding. During spraying or sanding the product, wear suitable respiratory equipment to protect against inhalation of mist and dust.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Asphalt	8052-42-4	10-20
Crystalline silica, quartz	14808-60-7	5-15
Carbon black	1333-86-4	0.5-2

SECTION 04: FIRST-AID MEASURES

Routes of exposure

Inhalation..... If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

Ingestion..... Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

Skin contact..... Remove contaminated clothing. Wash thoroughly with soap and water. If irritation develops, get medical aid.

Eye contact..... Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.

Most important symptoms and effects, both acute and delayed . The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.
 Medical attention and special treatment..... IF exposed or concerned: Get medical advice/attention. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved. Show this safety data sheet to the doctor in attendance.

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SECTION 05: FIRE-FIGHTING MEASURES

Extinguishing media..... Not flammable. Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish.

Hazardous combustion products..... Carbon monoxide, carbon dioxide, hydrocarbons, metal oxides.

Special protective equipment and precautions Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Move containers from fire area if this can be done without risk. Cool closed containers exposed to fire with water spray. Material can be slippery when wet.

Further information..... Product will not burn as supplied. Dried film may burn if subject to source of ignition. Closed containers may explode when exposed to extreme heat.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Eliminate all sources of ignition. Ensure adequate ventilation. Restrict access to area until completion of clean up. Evacuate personnel to safe areas. Ensure clean up is conducted by trained personnel only . Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions..... Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods. Do not allow material to contaminate ground water system.

Methods and materials for containment and cleaning up Stop leak. Dike and contain spill. For large amounts: Pump off product. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into container. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS .

SECTION 07: HANDLING AND STORAGE

Handling precautions..... Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only with adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke.

Storage needs..... Keep containers from excessive heat and freezing. Protect container from physical damage.

Materials to avoid..... Keep away from strong acids. Keep away from strong bases. Keep away from oxidizing agents.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Asphalt	0.5 mg/m3	not available	not available	not available		not available
Crystalline silica, quartz	0.025 mg/m3 (respirable fraction)	not available	not available	not available		0.05 mg/m3 (respirable dust)
Carbon black	3.5 mg/m3	not available	3.5 mg/m3			not available
Engineering controls.....	Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.					
Individual protection measures						
Eye/type.....	Safety glasses with side-shields.					
Clothing/type.....	Wear clean long legged, long sleeved work clothes.					
Gloves/ type.....	Neoprene gloves. Nitrile rubber.					
Respiratory/type.....	When used with adequate ventilation, a respirator is not normally required. If required, use a NIOSH-approved air purifying respirator with organic vapor cartridge or supplied air respirator. This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.					
Hygiene measures.....	Handle in accordance with good industrial hygiene and safety practice. Remove soiled clothing and wash it thoroughly before reuse. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... coarse liquid.

Color..... black.

Odour..... mild hydrocarbon.

Odour threshold..... no data available.

pH..... no data available.

Melting point (°C)..... not applicable.

Freezing point (°C)..... no data available.

Initial boiling point (°C)..... no data available.

Flash point (°C), Method..... >100°C, closed cup.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Evaporation rate.....	no data available.
Upper flammability limit (% vol).....	no data available.
Lower flammability limit (% vol).....	no data available.
Vapour pressure (mm Hg).....	no data available.
Vapour density (air=1).....	no data available.
Relative density/Specific Gravity.....	1.2.
Water solubility.....	dispersible.
Solubility in other solvents.....	no data available.
Partition coefficient — n-octanol/water.....	no data available.
Auto ignition temperature (°C).....	> 200 °C.
Thermal decomposition temperature.....	no data available.
Viscosity.....	no data available.
% volatile by volume.....	<10 g/l.

SECTION 10: STABILITY AND REACTIVITY

Reactivity.....	No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability.....	The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions.....	No hazardous reactions when stored and handled according to instructions. The product is chemically stable.
Conditions to avoid.....	Keep away from incompatibles such as oxidizing agents.
Incompatible materials.....	Acids, strong oxidizing agents.
Hazardous decomposition products.....	Decomposition will not occur if handled and stored properly. In case of fire, oxides of carbon (CO and CO ₂), fumes and smoke may be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Asphalt	not available	>5,000 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit)
Crystalline silica, quartz	not available	500 mg/kg (oral-rat)
Carbon black	not available	>8,000 mg/kg (oral-rat); >3,000 mg/kg (dermal-rabbit)
Routes of exposure		
Inhalation.....	Inhalation of vapours may cause irritation to the nose, throat and respiratory tract. Dust particles may cause irritation of the respiratory tract.	
Ingestion.....	Ingestion of this product may cause nausea, vomiting and diarrhea.	
Skin contact.....	Contact may cause skin irritation.	
Eye contact.....	Contact may cause eyes irritation. May cause mechanical irritation (abrasion).	
Acute effects		
Acute oral toxicity.....	Acute toxicity estimate > 2,000 mg/kg. Virtually nontoxic after a single ingestion. Method: calculation method.	
Acute dermal toxicity.....	LD50 (Rabbit) : > 2,000 mg/kg. Virtually nontoxic after a single skin contact. Method: calculation method.	
Acute inhalation toxicity.....	Acute toxicity estimate : > 20 mg/l. Test atmosphere: vapour. Acute toxicity estimate : > 5 mg/l. Test atmosphere: dust/mist. Exposure time: 4 h. Virtually nontoxic by inhalation. Method: calculation method.	
Skin corrosion/irritation.....	Result: slight irritation.	
Serious eye damage/eye irritation.....	Result: mild eye irritation.	
Respiratory or skin sensitisation.....	Non-sensitizing.	
Specific target organ toxicity (STOT) single exposure	Based on the available information there is no specific target organ toxicity to be expected after a single exposure.	
Aspiration hazard.....	No aspiration hazard expected.	
Chronic toxicity/effects		
Specific target organ toxicity (STOT) repeated exposure	Quartz and cristobalite: May cause damage to organs (lungs) through prolonged or repeated exposure (inhalation).	
Carcinogenicity.....	In June, 1997, IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1). Asphalt is listed as IARC Group 2B (possibly carcinogenic to humans). Carbon black is listed as IARC Group 2B (possibly carcinogenic to humans). Risk of cancer depends on duration and level of exposure.	
Reproductive toxicity.....	No known significant effects or critical hazards.	
Germ Cell Mutagenicity.....	No known significant effects or critical hazards.	

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SECTION 11: TOXICOLOGICAL INFORMATION

Remarks..... This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding. During spraying or sanding the product, wear suitable respiratory equipment to protect against inhalation of mist and dust. The product has not been tested. The statement has been derived from the properties of the individual components.

Symptoms of Exposure..... The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity..... May cause long-term adverse effects in the aquatic environment.

Persistence and degradability..... The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Bioaccumulative potential..... No data available.

Mobility in soil..... No data available.

Other adverse effects..... No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods

Waste disposal of substance..... Dispose of in accordance with national, state and local regulations.

Container disposal Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

SECTION 14: TRANSPORT INFORMATION

TDG classification..... Not regulated as a dangerous good.

SECTION 15: REGULATORY INFORMATION

WHMIS regulatory status..... This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015). This product is WHMIS 2015 controlled.

SECTION 16: OTHER INFORMATION

Disclaimer..... The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

Prepared by: CanChem Consultant

Preparation date..... JUN 08/2017