



Safety Data Sheet

Safety Data Sheet : Bond-X Green Cold Mix Asphalt

Issue Date: December 2016

Section 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: Bond-X Green Cold Mix Asphalt

Recommended Use of the Chemical and Restriction on Use: Repairing asphalt pavement, driveways and parking lots.

Details of Manufacturer or Importer:

Unit 11, 348 South Pine Road, Brendale QLD 4500

P 1300 789 967 **F** 07 3206 8339 **E** orders@permanentpotholesolutions.com.au

Emergency Contact: (07) 3061 6662

Section 2 - HAZARDOUS IDENTIFICATION

Emergency Overview

Contact with molten product can cause severe thermal burns. Exposure to vapors may irritate the eyes, skin and respiratory tract.

Potential Health Effects (Eyes):

Vapors can irritate the eyes.

Potential Health Effects (Skin):

Contact with molten product can cause severe thermal burns. Vapors may irritate the skin.

Potential Health Effects (Ingestion):

Not considered a likely route of exposure during normal product use conditions.

Potential Health Effects (Inhalation):

Low concentrations (50-100 ppm) can irritate the eye and respiratory tract and may cause nervousness, cough, nausea and headache. Prolonged exposure to concentrations between 250 and 600 ppm may cause pulmonary edema (fluid on the lungs) and bronchial pneumonia. Brief exposure to concentrations above 500 ppm can cause unconsciousness and may be fatal.

Medical Conditions Aggravated by Exposure

Inhalation of reparable dust may aggravate existing respiratory tract diseases. Exposure may aggravate existing skin conditions.

HMIS Ratings: Health: 1 Fire: 0 HMIS Reactivity 0

Hazard Scale:

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Hazard.

Section 3- COMPOSITION / INFORMATION ON INGREDIENTS

CASCAS #	Component	Percent
Not Available	Course and Fine aggregate	90-95
8052-42-4	Asphalt	3-6
Not Available	Proprietary Softening Agent	1-5
Trade Secret	Stabilizing agent	>0.7125
Trade Secret	Proprietary Mixture	01-1.75

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Section 4 - FIRST AID MEASURES

First Aid: Eyes

If hot material splashes into eyes, immediately flush eyes with water. Do not attempt to remove particles from eyes. Take victim to physician at once.

First Aid: Skin

If molten asphalt contacts skin, cool immediately with cold water. For extensive burns obtain medical attention immediately. Do not use solvents to remove asphalt from skin.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

First Aid: Inhalation

Remove to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Seek medical attention.

Section 5 - FIRE FIGHTING MEASURES

General Fire Hazards

See Section 9 for Flammability Properties.
Irritating and highly toxic gases and fumes can evolve.

Hazardous Combustion Products

Oxides of carbon, hydrogen sulphide and sulphur oxides.

Extinguishing Media

Dry chemical, carbon dioxide, foam and water fog. Water may cause frothing.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

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

Section 6 - ACCIDENTAL RELEASE MEASURES

Containment Procedures

Contain spilled material and do not allow to flow into public sewers or water systems.

Clean-Up Procedures

Shut off all ignition sources. Allow material to harden and transfer into container for proper disposal.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

Unused material can be recycled. Landfill wastes at approved sites. Dispose of in accordance with Federal, State, and Local regulations.

Section 7 - HANDLING and STORAGE

Handling Procedures

Avoid breathing fumes. Contact can cause severe burns. Use in well ventilated areas.
Dusts created by drilling or grinding cured asphalt may irritate the eyes and respiratory tract.
For such operations, use approved respirators and avoid breathing dusts.

Storage Procedures

Highly flammable and toxic fumes may build up in vapour spaces of storage tanks and transport compartments.
Avoid breathing gases and keep ignition sources away from vents.



Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

A: Component Exposure Limits

Asphalt (8052-42-4)

ACGIH: 0.5 mg/m³ TWA (fume, inhalable fraction, as benzene soluble aerosol) NIOSH: 5 mg/m³ Ceiling (15 min, fumes)

Engineering Controls

Use only in well ventilated areas.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Chemical safety goggles or full face mask.

Personal Protective Equipment: Skin

Use impervious gloves.

Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

Section 9 - PHYSICAL and CHEMICAL PROPERTIES

Appearance:

Black viscous fluid mixed with coarse and fine aggregate.

Physical State: Liquid

Vapor Pressure: NA

Boiling Point: 900°F

Solubility (H₂O): Insoluble

Evaporation Rate: NA

Octanol/H₂O Coeff: ND

Flash Point Method: ND

Lower Flammability Limit (LFL): ND

Auto Ignition: ND

Odour: Asphalt

Vapor Density: >1

Melting Point: ND

Specific Gravity: 1.041

VOC: <0.1%

Flash Point: >400°F

Upper Flammability Limit (UFL): ND

Burning Rate: ND

Weight Per Gallon: 8.02 lbs.

Section 10 - CHEMICAL STABILITY and REACTIVITY INFORMATION

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Heat approaching flash and open flames.

Incompatibility

Strong oxidizers.

Hazardous Decomposition

Carbon monoxide, hydrogen sulphide, sulphur oxides.

Possibility of Hazardous Reactions

Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

Acute Dose Effects: A - General Product Information

No information available for the product.

B: Component Analysis - LD₅₀/LC₅₀

Asphalt (8052-42-4)

Oral LD₅₀ Rat: >5000 mg/kg; Dermal LD₅₀ Rabbit:>2000 mg/kg

Proprietary Mixture

Oral LD₅₀ Rat: 2000 mg/kg; Dermal LD₅₀ Rat:2250 mg/kg; Dermal LD₅₀ Rabbit:3560 mg/kg

Carcinogenicity: A - General Product Information

No information available for the product.

B: Component Carcinogenicity

Asphalt (8052-42-4)

ACGIH: A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free)

NIOSH: Potential occupational carcinogen (roofing asphalt fumes & asphalt based paints)

IARC: Supplement 7 [1987]; Monograph 35 [1985] (extracts of steam-refined and air-refined)

(Group 2B (possibly carcinogenic to humans))



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Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity Proprietary Mixture

Test & Species Conditions

96 Hr LC50 Pimephales promelas 728 mg/L

72 Hr EC50 Scenedesmus subspicatus 210 mg/L

Section 13 - DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Section 14 - TRANSPORTATION INFORMATION

US DOT Information Shipping Name: Not Regulated

Section 15 - REGULATORY INFORMATION

US Federal Regulations - Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations - Component Analysis

The following components appear on one or more of the following state hazardous substances lists:

Component	CA	MA	MN	NJ	PA	RI
Asphalt	Yes	Yes	Yes	Yes	Yes	Yes
Proprietary Mixture	No	Yes	No	Yes	Yes	No

Component Analysis -WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

Component Analysis - Inventory

Component	TSCA	CAN	EEC
Asphalt	Yes	DSL	EINECS
Proprietary Mixture	Yes	DSL	EINECS

Section 16 - OTHER INFORMATION

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

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