

## SAFETY DATA SHEET

According to  
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

### Section 1. Identification of the material and the supplier

Product: **Ready Road Cold Asphalt**  
Other names: Asphalt  
Cold Mix

Product Use: Ready Road Cold Mix Asphalt is used for the repair of potholes and utility cuts in asphalt, chip seal and concrete pavement surfaces.

Restriction of Use: Refer to Section 15

New Zealand Supplier: **Higgins Bitumen Manufacturing**  
Address: 26 Waitangi Road  
Awatoto  
Napier, New Zealand

Telephone: +64 6 834 1589  
E-mail: HBM@higgins.co.nz

**Emergency Telephone: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 17 May 2021

### Section 2. Hazards Identification

**This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020.**

#### Other Hazards

Risk of burns or scolds when handled, stored and transported at elevated temperatures.  
Strains and sprains can occur during manual handling of heavy material.

### Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Bitumen	<10	8052-42-4
Other ingredients that do not contribute to hazard classifications	>60	

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes If hot material contacts the eyes, immediately cool the affected area under cold water for at least 10 minutes. **DO NOT** attempt to remove the product from burnt areas. Refer to the CCNZ Bitumen Burns Card (see Section 16) and seek immediate medical assistance. Excessive exposure to fumes may cause eye irritations including redness, swelling, stinging and tearing in susceptible individuals. Remove affected person to a ventilated area.

If on Skin	If hot material contacts the skin, immediately cool the affected area under cold water for at least 10 minutes. <b>DO NOT</b> attempt to remove the product from burnt areas. Refer to the CCNZ Bitumen Burns Card (see Section 16) <u>and</u> seek immediate medical assistance. Material that contacts the skin at ambient temperatures <b>and does not</b> result in burns can be removed using vegetable based oils, or industrial hand cleaners. Do not use thinners or solvents. Repeated skin contact may cause skin irritations or dermatitis in susceptible individuals.
If Swallowed	Do not induce vomiting, wash out mouth thoroughly. If symptoms develop seek medical assistance.
If Inhaled	Asphalt can generate fumes when hot. Excessive exposure to fumes can cause eye irritations including redness, swelling, stinging and tearing. Remove affected person to a ventilated area. If symptoms persist, seek medical advice. If not breathing, apply artificial respiration and seek urgent medical advice.

**Most important symptoms and effects, both acute and delayed**

Symptoms: Various studies have concluded that there is no evidence of long-term health affects arising from the use of asphalt.

<b>Section 5. Fire Fighting Measures</b>
--

<b>Hazard Type</b>	Non Flammable. Partially combustible solid. Unlikely to cause a fire or explosion hazard under normal conditions of use.
<b>Hazards from products</b>	Complete or incomplete combustion can produce oxides of carbon, sulfur and nitrogen, hydrogen sulphide and polyaromatic hydrocarbons.
<b>Suitable Extinguishing media</b>	For large fires use foam, water spray or water fog For small fires use CO <sub>2</sub> , dry powder, foam, sand or soil Do not use: Do not use high-pressure water hoses as these may cause the bitumen to react explosively and/or spread the burning material.
<b>Precautions for firefighters and special protective clothing</b>	Fire fighters should wear full protective clothing and self-contained breathing apparatus.
<b>HAZCHEM CODE</b>	None allocated

<b>Section 6. Accidental Release Measures</b>
---

Wear suitable personal protective clothing as described in Section 8 to prevent skin or eye contact.

**Small Spills:**

Sweep up and remove using a broom and shovel or other suitable equipment.

**Large Spills:**

Use earth moving or excavation equipment to remove large spills. If a spillage enters the aquatic environment, contact the appropriate regional council for advice on removing it correctly.

**Environmental Impact:**

Non-hazardous in the terrestrial and aquatic environment.

**Waste Disposal:**

Waste product can be disposed of as clean fill. Check with local authority requirements prior to disposal.

## Section 7. Handling and Storage

### Precautions for Handling:

- Be aware that handling of packaged material, or shoveling of bulk asphalt involves lifting of heavy weights.
- Exercise caution to prevent muscle and back sprains.
- Wear personal protective clothing when handling (see Section 8). "Code of Practice RNZ9904: The Safe Handling of Bituminous Materials used in Roading" provides more information on the safe handling and storage of bituminous materials.

### Precautions for Storage:

- Material can be stored under cover in bulk, in hessian sacks or original PE bags or buckets for up to 2 years.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Asphalt (petroleum) fumes [8052-42-4]	-	5	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2019 11TH EDITION.

### Engineering Controls

None required under normal conditions of use.

### Personal Protection Equipment



<b>Eyes</b>	Eye protection is recommended to prevent dust or cold mix accidentally entering eye and causing irritation during use.
<b>Hands and Skin</b>	Wear PVC or other impervious gloves to prevent contact with skin. Full length overalls are recommended to prevent contact with cold mix ruining clothes or staining skin. Wear safety boots that are oil resistant and have slip resistant soles while handling the product in case of slippage or dropping a bag on the foot. Overalls should cover the top of the boot.
<b>Respiratory</b>	Respiratory protection or breathing apparatus is not required.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Solid black mixture of aggregates at ambient temperature.
<b>Odour</b>	Slight oily odour.
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	>200°C
<b>Flammability</b>	Combustible Solid
<b>Upper and Lower</b>	Not available

<b>Explosive Limits</b>	
<b>Vapour Pressure</b>	< 0.75mm Hg @ 180°C
<b>Vapour Density</b>	Not available
<b>Density @ 25°C</b>	1.5 – 2.0 g/cm <sup>3</sup>
<b>Solubilities</b>	Insoluble/Not miscible
<b>Partition Coefficient: N octanol/water</b>	Not available
<b>Auto-ignition Temperature</b>	> 400°C
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not applicable

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Reactivity</b>	Will react with strong oxidizing agents.
<b>Conditions to Avoid</b>	Contact with oils and solvents will degrade the product
<b>Incompatible Materials</b>	Strong oxidizing agents. Contact with oils and solvents will degrade the product.
<b>Hazardous Decomposition Products</b>	Normal combustion forms CO <sub>2</sub> , H <sub>2</sub> O, NO <sub>x</sub> , and SO <sub>x</sub> . Incomplete combustion may produce CO, H <sub>2</sub> S, PCA, PAH, and volatile hydrocarbon and particulate matter.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Not triggered however ingestion of cold asphalt can cause irritation to the teeth, mouth, throat and stomach. Ingestion of large quantities can block the digestive tract. LD50: >5000 mg/kg.
<b>Dermal</b>	Not triggered.
<b>Inhalation</b>	Inhalation of fumes is extremely unlikely. Symptoms usually recede once the victim is removed to a well-ventilated area.
<b>Eye</b>	Not triggered however because cold asphalt is a granular material, contact with the eye can cause physical abrasion.
<b>Skin</b>	Not triggered however repeated skin contact can cause skin irritations and dermatitis in some people.

### Chronic Effects:

<b>Carcinogenicity</b>	Not triggered.
<b>Reproductive Toxicity</b>	Not triggered.
<b>Germ Cell Mutagenicity</b>	Not triggered.
<b>Aspiration</b>	Not triggered.
<b>STOT/SE</b>	Not triggered.
<b>STOT/RE</b>	Not triggered.
<b>Chronic</b>	Prolonged and/or repeated skin exposure can cause irritation and dermatitis in some people. Numerous studies have concluded that bitumen does not cause any increase in the occurrence of carcinogenic, mutagenic or reproductive toxicity effects in workers.

## Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

<b>Persistence and degradability</b>	Based on its use as a road surfacing material, asphalt is expected to be highly persistent and not degradable in the environment.
<b>Bioaccumulation</b>	No data Available
<b>Mobility in Soil</b>	Not dispersible in water. No reports have been found that indicate hazardous components are leached from the adsorbed asphalt once it has cured.
<b>Other adverse effects</b>	No data available

### Section 13. Disposal Considerations

#### Disposal Method:

Cold asphalt can be disposed of as clean fill. Consult the relevant regional authority on local disposal options. Packaging can be safely disposed of at the landfill.

**Disposal methods to avoid:** None known.

### Section 14 Transport Information

**This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**

### Section 15 Regulatory Information

**This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020.**

### Section 16 Other Information

#### Glossary

Cat	Category
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

#### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness.

As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

Issue Date: 17 May 2021

Review Date: 17 May 2026