

SAFETY DATA SHEET

Section 1 – Product And Company Identification

PRODUCT

PRODUCT NAME: 2102 JETSEAL
PRODUCT DESCRIPTION: Preparation/Mixture
PRODUCT USE: Used to seal and prolong the life of asphalt parking lots.

MANUFACTURER INFORMATION

INNOVATIVE MANUFACTURING INC
 861 DERWENT WAY
 DELTA, BC, CANADA, V3M 5R4
 (604) 522-2811

EMERGENCY INFORMATION

INNOVATIVE MANUFACTURING CONTACT: 1-800-667-8246
24-HOUR EMERGENCY AND SDS HELP: CANUTEC: 613-966-6666

Section 2 – Hazards Identification

GHS Hazard Classification

Acute toxicity - Oral	Category 5
Acute toxicity - Inhalation (Vapors)	Category 5
Skin corrosive/irritation	Category 3
Serious eye damage/eye irritation	Category 2B
Specific target organ toxicity (single exposure)	Category 3 (Respiratory irritation)



Signal word

Warning

Hazard Statement:

H303 May be harmful if swallowed.
 H316 Causes mild skin irritation.
 H320 Causes eye irritation.
 H333 May be harmful if inhaled.
 H335 May cause respiratory irritation.

Precautionary Statements:

Prevention	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.
Response	P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 If eye irritation persists: Get medical advice/attention.
Storage	P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
Disposal	P501 Dispose of contents/container: Follow the waste disposal requirements of your country, state, or local authorities.

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

Not applicable

Section 3 – Composition/Information on Ingredients

COMPONENTS	CAS No.	% BY WEIGHT
Water	7732-18-5	50-60
Petroleum Asphalt	8052-42-4	20-25
Slate, Crushed (Crystalline Silica)	14808-60-7	15-20
Clays	NA - Mixture	2-6
Proprietary components present at less than 1% each		

Section 4 – First Aid Measures**Description of First Aid Measures**

Eye Contact	If irritation or redness develops from exposure to fumes, move victim away from exposure and into fresh air. Remove contact lenses. For contact with the material, hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.
Skin Contact	Wear protective gloves to minimize skin contamination. To remove the material from skin, apply a waterless hand cleaner, mineral oil, or petroleum jelly. Then wash with soap and water. As a precaution, remove clothing and shoes if contaminated. Discard contaminated clothing or thoroughly clean before reuse.
Inhalation	Do not induce vomiting due to danger of aspirating liquid into lungs. Gastric lavage may be required. Never give anything by mouth to an unconscious person. As a precaution, get medical advice.
Ingestion	If respiratory symptoms develop from exposure to fumes, move victim away from source of exposure and into fresh air. If not breathing, give artificial respiration. If breathing is difficult, get medical attention as soon as possible.

Most important symptoms and effects, both acute and delayed

Symptoms	No information available
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically
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Section 5 – Fire Fighting Measures

Suitable extinguishing media Use foam, dry chemical, or carbon dioxide or water fog

Special hazards arising from the substance or mixture

In a fire, hazardous fumes, decomposition products or residues may be produced. Combustion products may include: carbon monoxide, carbon dioxide and oxides of nitrogen and sulfur. Burning of product may release hydrogen sulfide gas.

Protective actions fire-fighters

This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Section 6 – Accidental Release Measures**Personal precautions, protective equipment, and emergency procedures**

Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Use personal protective equipment.

Environmental precautions

See Section 12 for additional ecological information

Methods and materials for containment and cleaning up

Spill Management	Stop source of release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible.
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Methods for cleaning up

Dam up. Absorb with inert material. Pick up and transfer to properly labeled containers.
Clean contaminated surface thoroughly.

Section 7 – Handling and Storage**Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink, or smoke while handling this product. Wash thoroughly after handling. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location.

Conditions for safe storage, including any incompatibilities

Do not use or store near heat, sparks or open flame. Store only in a well ventilated area. Keep container closed when not in use. Do not store container in direct sunlight or above 100°F.

Incompatible Products Strong oxidizing agents. Acids

Section 8 – Exposure Controls / Personal Protection**Control Parameters**

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL
Asphalt (8052-42-4)	TWA: 0.5 mg/m ³ (Inhalable)	-
Silica, Crystalline (14808-60-7)	0.025 mg/m ³ (Respirable)	-
Clay (63800-37-3)	10 mg/m ³ (Inhalable)	15 mg/m ³ (Total), 5 mg/m ³ (Respirable)
Cellulose (9004-34-6)	TWA: 10 mg/m ³ (Total)	TWA: 105mg/m ³ (Total), TWA: 5 mg/m ³ (Respirable)

Appropriate engineering control**Engineering Controls**

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment**EYE PROTECTION:**

Safety Glasses with side shields. Wear ANSI approved eye protection

SKIN/BODY

Selection of specific items such as gloves, boots, apron or full-body suit will depend on operation.

RESPIRATORY PROTECTION:

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9 – Physical and Chemical Properties

	PRODUCT CRITERIA
PHYSICAL STATE	Viscous Liquid
APPEARANCE - COLOR	Brown to Black
ODOR	Asphaltic
ODOR THRESHOLD	Mild
PH	6 - 9
MELTING POINT/FREEZING POINT	< 0°C
INITIAL BOILING POINT AND BOILING RANGE	> 100°C
FLASH POINT	No data available
EVAPORATION RATE	No data available
FLAMMABILITY (solid, gas)	No data available
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	No data available
VAPOR PRESSURE	No data available
VAPOR DENSITY (AIR=1)	No data available
SPECIFIC GRAVITY (@25°C)	1.002
SOLUBILITY	No data available
AUTO IGNITION TEMPERATURE	No data available
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY	No data available
VOC CONTENT	0 g/L

Section 10 – Stability and Reactivity

Reactivity:	No date available.
Chemical Stability:	Stable under recommended storage and handling conditions.
Possibility of Hazardous Reactions:	None under normal processing.
Conditions to Avoid:	Extreme temperature and direct sunlight.
Incompatibility (Materials to Avoid):	Strong oxidizing agents. Acids.
Hazardous Decomposition Products:	None known based on information supplied.

Section 11 – Toxicological Information

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Commen	Chemical Constituent
Acute Toxicity	LD50 (Oral/Rat)	5100 mg/kg		8052-42-4 Asphalt
	LC50 (Inhalation/Rat male)	-		
	LD50 (Dermal/Rabbit)	2100 mg/kg		
	LD50 (Oral/Rat)	-		9004-34-6 Cellulose
	LC50 (Inhalation/Rat male)	5800 mg/m ³ , 4 Hr Rat		
	LD50 (Dermal/Rabbit)	-		
Skin Corrosion/Irritation		No information is available		
Serious Eye Damage / Eye Irritation		No information is available		
Respiratory or Skin Sensitization		No information is available		
Germ Cell Mutagenicity		No information is available		
Carcinogenicity	ACGIH	A3		8052-42-4 Asphalt
	IARC	Group 2B		
	NTP	Reasonably Anticipated		
	OSHA	X		
Reproductive Toxicity		No information is available		
STOT - Single Exposure		No information is available		
STOT - Repeated Exposure		No information is available		
Aspiration Hazard		No information is available		

* **Component information:** The IARC monograph (Vol.103.2013, Bitumen and Bitumen Emissions) defines Asphalt as :Group 2B, Possible Carcinogen to Humans". This definition is based on studies of exposure to Asphalt fumes at elevated temperatures. The Monograph states that temperature plays an important role in determining the degree of exposure and also the carcinogenic potential of bitumen emissions. This same Monograph states that Asphalt is non volatile at ambient temperature. There is no data presented in the Monograph to demonstrate that Asphalt at ambient temperature is considered a carcinogen. Since the normal use of this product is at ambient temperature, the Asphalt used in this product is not listed as a carcinogen. No other national or international agency has defined Asphalt as a carcinogen.

Section 12 – Ecological Information

Ecotoxicity	This material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water. The environmental impact of this product has not been fully investigated.
Bioaccumulation	This product is estimated to have a slow rate of biodegradation. This product is not expected to bioaccumulate through food chains in the environment.
Other Adverse Effects	No information available.

Section 13 – Disposal Considerations

Waste Disposal	Dispose of waste according to local, state/provincial, and federal requirements. Avoid disposal into wastewater treatment facilities.
Contaminated Materials	Treat as product waste.
Container Disposal	Do not re-use empty containers.

Section 14 – Transportation Information

DOT	Not Regulated as a hazardous material for transport
TDG	Not Regulated as a hazardous material for transport
IATA	Not Regulated as a hazardous material for transport
IMDG	Not Regulated as a hazardous material for transport

Section 15 – Regulatory Information**SARA 313**

This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations ,Part 373.

SARA 311/312 Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Section 16 – Other Information**HMIS Rating:**

Health	1
Flammability	1
Physical Hazard	0
Personal Protection	x

NFPA Rating:

Health	1
Flammability	1
Instability	0
Special	-

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