

# Safety Data Sheet US Department of Labor

May be used to comply with Occupational Safety and Health Administration.

OSHA's Hazardous Communication Standard (GHS Format) 29 CFR 1910.1200.

If any item is not applicable, or information is not available, the space must be marked to indicate this.

## Section I: Identification

a) **Product Name:** 4 Seasons™ *R4 Liquid Pothole Filler*



b) **R4 LIQUID POTHOLE FILLER**

c) **A 2 part, water based, liquid rubberized filler used to fill potholes in asphalt and concrete pavements.**

d,e) **Manufacturer's Name:** 4Seasons Pavement Repair Products, Inc (formerly IMG, Inc)

**Address:** 3301 S Green St Shelby, MI 49455

**Emergency Phone:** (231) 861-7126

**Information Phone:** (231) 861-7126

**Name of Preparer:** Steven Arnold

**Date Prepared:** 12/31/2023

**Product Code:** PART A – LIQUID ASPHALT EMULSION BLEND

## Section II: Hazards Identification /SARA III Information

a) This product is classified as NON-HAZARDOUS. All ingredients herein are proprietary as written out in 49 CFR RULES for such products. b,c,d) N/A

## Section III: Composition/Information on Ingredients

**Not Applicable:** This product is classified as NON-HAZARDOUS. All ingredients herein are proprietary as written out in 49 CFR RULES for such products.

## Section IV: First Aid Measures

a) **Emergency and First Aid Procedures:**

**INHALATION:** Move person to fresh air and consult a physician.

**EYES:** Flush with plenty of water for at least 15 minutes and call a physician.

**INGESTION:** Induce vomiting and call a physician.

**SKIN:** Soap and water or hand cleaner.

4b) **Health Hazards (Acute and Chronic):**

**INHALATION:** Irritation, nausea, dizziness, headache

**SKIN:** Irritation, prolonged exposure can cause dermatitis

**INGESTION:** Stomach irritation, nausea, vomiting

**Medical Conditions Aggravated by Exposure:** None Known

4c) **Signs and Symptoms of Exposure:**

Irritation, nausea, dizziness, headache, vomiting, dermatitis

**Carcinogenicity:**

NTP: NONE

IARC Monographs: NONE

OSHA Regulated: NONE

## Section V: Fire and Explosion Hazard Data

**Flash Point:** COMPOUND IS A WATER BASED MIXTURE

**Extinguishing Media:** DRY CHEMICAL, WATER FOGGER, CO<sub>2</sub> FOAM

**Unusual Fire and Explosion Hazards:** If the water is removed, the semi-solid residue will burn, but not support combustion.

## Section VI: Accidental Release Measures

a) **Protective Gloves:** For ease in personal hygiene after handling.

**Eye Protection:** Use goggles to prevent eye irritation.

**Other Protective Clothing:** To keep from splashing on clothing.

**Ventilation:**

Local Exhaust: N/A

Mechanical: N/A

Special: N/A

b) Dike or contain spill with earth, sand, etc. Place absorbed material in containers for disposal. Recovered uncontaminated liquid may be combined with aggregates and used for road patching and maintenance. Other wastes should be disposed of according to prevailing regulations.

## Section VII: Handling and Storage

a,b) Wear disposable gloves and protective eyewear, due to possible splashing. Do not freeze, store above 40°F/4°C. not exceeding 100°F/38°C. Do not contaminate with other compounds. Store in a closed container.

## Section IX: Physical/Chemical Characteristics

Appearance and Odor: CHOCOLATE BROWN, SWEETISH, VERY SLIGHT ODOR

PH: 12.5

Boiling Range: 313° to 572° F

Vapor Pressure: 23.7 mm Hg

Vapor Density (Air=1): 0.62

Evaporation Rate: WATER ONLY

Specific Gravity (H<sub>2</sub>O=1): 1.02

Melting Point: N/A

Freezing point: 32°F/0°C

Flammability: Liquid state non-flammable; solid will not sustain flame

Solubility in Water: COMPOUND IS A WATER BASED MIXTURE

## Section X: Stability and Reactivity

Stability: STABLE

Incompatibility: NONE KNOWN

Hazardous Decomposition or Byproducts: NONE KNOWN

Hazardous Polymerization: WILL NOT OCCUR

## Section XI: Toxicological Information

### Carcinogenicity:

NTP: NONE

IARC Monographs: NONE

OSHA Regulated: NONE

Routes of Entry: Inhalation, Skin, Ingestion

### Health Hazards:

INHALATION: Irritation, nausea, dizziness, headache. Only in enclosed, unventilated area. Outdoors: N/A

SKIN: Irritation, prolonged exposure can cause dermatitis

INGESTION: Stomach irritation, nausea, vomiting

## Section XII: Ecological Information

N/A

## Section XIII: Disposal Considerations

Recovered materials may be combined with aggregates and used for road patching and maintenance. Material may be solidified with sand, aggregate, cat litter. Solidified wastes should be disposed of in landfill according to prevailing regulations.

## Section XIV: Transportation Information

Liquid is classified Non-Hazardous, Non-flammable by the US DOT and REACH and is not regulated by the Transportation of Dangerous Goods (TDG) when shipped by any mode of transport including air and sea.

## Section XV: Regulatory Information

N/A

## Section XVI: Other Information

Revised October 2019

US PATENT# 10,428,217

## Section XVII: Disclaimer

### Disclaimer:

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding accuracy of these data or the results to be obtained from the use thereof. The Manufacturer assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by this material.

## Section I: Identification

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a) **R4 LIQUID POTHOLE FILLER**

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**Name of Preparer:** Steven Arnold

b) **PART B, C – AGGREGATE, ACTIVATOR**

## Section II: Hazards Identification /SARA III Information

a) Classification of the substance or mixture: N/A

b) GHS Label elements, including precautionary statements: N/A

c) Hazards not otherwise classified (HNOC) or not covered by GHS: None

d) N/A

## Section III: Composition/Information on Ingredients

a,b,c)

**CRUMB RUBBER**

Vulcanized Rubber Compound

**GYP SUM**

CAS #7778-18-9

**PROPRIETARY BLEND FILLER** \*Non- hazardous, non flammable, proprietary as written in 49CFR Rules for such products.

## Section IV: First Aid Measures

a) **EMERGENCY & FIRST AID PROCEDURES:**

**Eyes:** Flush with running water. Contact physician if irritation persists.

**Inhalation:** Nuisance dust. Move to fresh air. Contact physician if difficulty in breathing.

**Skin:** Wash with soap and water. Contact physician if irritation persists

b) **Signs & Symptoms of Exposure:** Irritated eyes from dust, difficulty breathing, irritated skin

**Health Hazards (Acute):**

**Inhalation:** Nuisance dust

**Skin:** May cause Irritation.

**Eyes:** May cause irritation.

**Ingestion:** Stomach irritation, nausea, vomiting. May cause blockage

**Chronic:** None

**Carcinogenicity:** NTP: NONE

**IARC Monographs:** NONE

**OSHA Regulated:** NONE

c) **Medical Conditions Aggravated by Exposure:** Respiratory system, irritated eyes or open wounds.

## Section V: Fire and Explosion Hazard Data

a) **Extinguishing Media:** NOT COMBUSTABLE

Use water spray, or alcohol-resistant foam, dry chemical or carbon dioxide.

b) **Flash Point:** Crumb Rubber ignition temp of dust cloud 608F. **Unusual fire and explosion hazards:** Dust may be explosive if mixed with air in critical proportions and in presence of ignition. But blended with Proprietary Aggregate eliminates potential for burn.

c) Wear self contained breathing apparatus for fighting fire if necessary, avoid breathing dust.

## Section VI: Accidental Release Measures

a) Avoid creating excessive dust. Wear suitable dust mask during clean up. Slurry may plug drains.

b) Sweep or vacuum up all spillage and place in suitable container for disposal. Waste can be reused if clean and dry, otherwise dispose of in suitable container according to regulations.

## Section VII: Handling and Storage

a) Avoid formation of dust. Provide appropriated exhaust ventilation at places where dust is formed.

b) Dew point conditions or other conditions causing presence of liquid/water during storage will cause gypsum to harden. No incompatibilities.

## Section VIII: Exposure Controls/ Personal Protection

a)

Occupational Exposure Limits							
COMPONENTS	CAS NO.	OSHA PEL	ACGH TLV	OTHER mmHG	TEMP	PERCENT	
CRUMB RUBBER	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GYP SUM	7778-18-9	15mg/m3	10mg/m3	N/A	N/A	N/A	N/A*
PROPRIETARY BLEND FILLER *	N/A	N/A	10mg/m3	N/A	N/A	N/A	N/A*

\*Non- hazardous, non flammable, proprietary as written in 49CFR Rules for such products.

Occupational Exposure Limits							
HAZARDOUS COMPONENTS	CAS NO.	OSHA PEL	ACGH TLV	OTHER mmHG	TEMP	PERCENT	
None							

b) Handle in accordance with good personal hygiene and safety practices. Wash hands before breaks and end of workday. Crumb Rubber has slight smell of vulcanized rubber; black granular aggregate. Contact can cause irritation to eyes, skin, respiratory system and gastrointestinal tract.

c) Eyes: Contact can cause irritation to eyes. Wear safety goggles in enclosed environment.

Skin: Contact can cause mild irritation or drying of skin. Wear gloves if irritation occurs.

Ingestion: Can cause mild irritation of gastrointestinal tract if swallowed.

Inhalation: This product can cause mild irritation of the respiratory system. Wear suitable dust mask if handling in enclosed area.

## Section IX: Physical/Chemical Characteristics

**Boiling Range:** N/A

**Vapor Pressure:** N/A

**Vapor Density (Air=1):** N/A

**Solubility in Water:** 0.2%

**Appearance:** Off-white, tan, grey, black granule

**Flash Point:** 608F for Crumb Rubber alone

**Flammability:** N/A

**PH:** 8-10

**Solubility:** Insoluble

**Specific Gravity (H<sub>2</sub>O=1):** 2.7

**Melting Point:** (decomposes) 1450° C

**Evaporation Rate:** N/A

**Harding Time:** 15-20 minutes

**Odor:** Low, earthy, vulcanized rubber

**Relative Density:** 2.4g/cc

## Section X: Reactivity Data

**Stability:** STABLE

**Incompatibility:** Strong oxidizing agents

**Reactivity:** Non-reactive

**Hazardous Decomposition or byproducts:** Thermal decomposition may produce carbon monoxide, carbon dioxide, zinc oxide fumes/dust, sulfur dioxide, liquid and gaseous hydrocarbons

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** Avoid direct flame.

## Section XI: Toxicological Information

a,b,c) Acute Toxicity: No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation: Not corrosion, possible mild irritation

Serious eye damage/irritation: Avoid nuisance dust.

Respiratory or skin sensitization: No data available

Germ Cell mutagenicity: No data available

Rat: No data available

Reproductive toxicity: No data available

Specific target organ toxicity-single exposure: No data available

Specific target organ toxicity- repeated exposure: No data available

Aspiration hazard: No data available

## Section XII: Ecological Information

a-e) N/A

## Section XIII: Disposal Considerations

Measures should be taken to prevent dust generation during disposal. Dispose as non-toxic waste in an approved landfill in accordance with all federal, state, and local regulations.

**Section XIV: Transportation Information**

a-f) N/A

g)Crumb Rubber and proprietary blend of aggregate, activator is not classified as a hazardous material by US DOT or REACH and is not regulated by the Transportation of Dangerous Goods (TDG) when shipped by any mode of transport.

**Section XV: Regulatory Information**

N/A

**Section XVI: Other Information**

Revised October 2019

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