



SAFETY DATA SHEET

Creation Date 09-Dec-2003

Revision Date 20-Oct-2015

Version 1

1. IDENTIFICATION

Product Name GreenPatch Liquid®

Product Code GPL

Recommended Use Cold asphalt road patch material

UN/ID no. UN3257

Manufacturer Address Green Product Solutions
7 Edison Avenue
Mount Vernon, NY 10550

Company Phone Number 1-800-985-9192
24 Hour Emergency Phone Number Chemtrec 1-800-424-9300
Emergency Telephone 1--914-447-1082 (after 5 pm ET and weekends)

E-mail address Info@greenpatch.com
Company Website <http://www.GreenPatch.com/>

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

Label elements

Warning

Hazard statements

Causes skin irritation
Causes serious eye irritation



Precautionary Statements -

Wash face, hands and any exposed skin thoroughly after handling

Prevention	Wear protective gloves/protective clothing/eye protection/face protection
Precautionary Statements - Response	IF exposed or concerned
Eyes	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention
Skin	IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Hazards not otherwise classified (HNOC)	<ul style="list-style-type: none"> • Contact with product at elevated temperatures can result in thermal burns • Dangerous amounts of Hydrogen Sulfide, a highly toxic gas, may be present in the headspace of heated containers.
Unknown acute toxicity	<ul style="list-style-type: none"> • No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical Name	CAS No.	Weight-%	Trade Secret
Petroleum Asphalt (non-paving use)	8052-42-4	40-70	*
Methyl Ester	67784-80-9	30-60	*
Proprietary, anti-strip additive	9999-99-9	1-3	*

- *The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

Description of First Aid Measures

Eye contact	<ul style="list-style-type: none"> • Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes • If eye irritation persists: Get medical advice/attention
Skin contact	<ul style="list-style-type: none"> • HOT MATERIAL: • Immediately drench or immerse area in water to assist in cooling. • Apply iced water or ice packs to burned area. • DO NOT use iced water or ice packs if the burned area covers more than 10% of the body, as this may contribute to shock. • DO NOT try to remove product from burned area after it has cooled. • Seek immediate medical attention/advice • Medical personnel can soften and remove cooled product with petroleum jelly or mineral oil. • COLD MATERIAL: • Clean exposed skin with mild soap and water. • If skin irritation persists, call a physician
Inhalation	<ul style="list-style-type: none"> • If respiratory symptoms develop, move victim to fresh air away from source of exposure and into fresh air. • If breathing is difficult, give oxygen • If symptoms persist, call a physician • If breathing has stopped, give artificial respiration. Get medical attention immediately
Ingestion	<ul style="list-style-type: none"> • DO NOT induce vomiting • If vomiting occurs naturally have the person lean forward to reduce the risk of aspiration. • Drink 1 or 2 glasses of water

- Get medical attention

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

- Treat as fuel oil or hydrocarbon fire.
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
- Dry chemical
- Foam
- Carbon dioxide (CO₂)
- Use water spray or fog; do not use straight streams
- Use water to cool fire-exposed containers and to protect personnel.

Unsuitable extinguishing media

- Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

- Hot product may ignite flammable materials on contact.

Hazardous combustion products

- Carbon monoxide
- Carbon dioxide (CO₂)
- Oxides of sulfur
- Hydrogen sulfide

Explosion data

Sensitivity to Mechanical Impact • None

Sensitivity to Static Discharge • None

Protective equipment and precautions for firefighters

- As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

- Avoid contact with eyes and skin
- Evacuate personnel to safe areas

Environmental precautions

- Prevent further leakage or spillage if safe to do so
- Avoid runoff into storm sewers, ditches and waterways.
- See Section 12 for additional ecological information

Methods and material for containment and cleaning up

Methods for containment

- Contain spill with an inert absorbent material such as soil, sand or oil dry.
- Prevent from spreading by covering, diking or other means.

Methods for cleaning up

- Use personal protective equipment as required
- Take up mechanically, placing in appropriate containers for disposal
- Clean contaminated surface thoroughly
- Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry
- Avoid creating dust

7. HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities

Storage Conditions

- Keep in a dry, cool and well-ventilated place
- Assure proper ventilation of storage or shipping containers to prevent accumulations of hazardous concentrations of off-gassed hydrocarbon gas or H₂S

Incompatible materials

- Strong oxidizing agents
- Water

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
Petroleum Asphalt (non-paving use) 8052-42-4	TWA: 0.5 mg/m ³ benzene soluble aerosol fume, inhalable fraction	-	Ceiling: 5 mg/m ³ fume 15 min
Hydrogen sulfide 7783-06-4	STEL: 5 ppm TWA: 1 ppm	(vacated) TWA: 10 ppm (vacated) TWA: 14 mg/m ³ (vacated) STEL: 15 ppm (vacated) STEL: 21 mg/m ³ Ceiling: 20 ppm	IDLH: 100 ppm Ceiling: 10 ppm 10 min Ceiling: 15 mg/m ³ 10 min

NIOSH REL *Immediately Dangerous to Life or Health*

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Controls

Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits.

Individual protection measures, such as personal protective equipment

Eye/face protection

- Wear safety glasses with side shields (or goggles)
- Wear face shield if splash hazard exist.

Skin and body protection

- Wear protective gloves (heat insulated, leather, lined neoprene coated gloves are recommended when working with hot product).
- Wear long sleeved shirt and long pants (cotton or other thermal protective material is recommended).

Respiratory protection

- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators in accordance with their company's respiratory protection program, local regulations or 29 CFR 1910.134.
- If irritation occurs, wear an air purifying respirator with particulate and organic vapor cartridges.
- Supplied air respirators or self-contained breathing apparatus should be used when concentrations of hydrogen sulfide exceeds the occupational exposure limit.

General Hygiene Considerations

- Do not eat, drink or smoke when using this product
- Avoid contact with skin, eyes and clothing.
- Wash exposed areas thoroughly after handling this product.
- Shower after exposure.
- Wash work clothes when soiled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Solid
Liquid when heated

Odor

Petroleum

Color

Black, Brown

Melting point / freezing point

Boiling point / boiling range

> 538 °C / 1000 °F

Flash point	> 205 °C / > 401 °F Cleveland Open Cup
Vapor pressure @20 °C (kPa)	3 mm Hg @ 20°C
Water solubility	Insoluble in water
Autoignition temperature	343 °C / 650 °F

10. STABILITY AND REACTIVITY

Reactivity	• No data available
Chemical stability	• Stable under normal conditions
Possibility of Hazardous Reactions	• Hazardous polymerization does not occur
Conditions to avoid	• Heat, flames and sparks • Keep from possible contact with water when product is in liquid state.
Incompatible materials	• Strong oxidizing agents • Water
Hazardous Decomposition Products	• Carbon dioxide (CO ₂) • Carbon monoxide • Combustion products may include sulfur oxides and hydrogen sulfide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	• No data available
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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum Asphalt (non-paving use) 8052-42-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Hydrogen sulfide 7783-06-4	-	-	= 0.99 mg/L (Rat) 1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Immediate Health Effects:	Inhalation of vapors, fumes and/or mist may cause nose, throat, and mucous membrane irritation, and nausea, headaches or dizziness, and central nervous system depression, including drowsiness, loss of coordination, and unconsciousness. Eye contact may cause severe irritation, redness, tearing, and blurred vision. If ingested, may cause mouth, throat and gastrointestinal tract irritation and upset with possible nausea, vomiting and diarrhea. Aspiration of petroleum distillates into the lungs can cause severe chemical pneumonitis that can be fatal. See Section 8 for exposure controls.
Delayed Health Effects	Prolonged or repeated skin contact may result in dryness and irritation of the skin. Prolonged contact with clothing saturated in petroleum distillates can cause second degree burns. Long term skin exposure to asphalt can increase sensitivity to the sun, and may cause discoloration.
Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Target Organ Effects
Aspiration hazard

No information available.
 No information available.
 No information available.
 Eyes, Respiratory system, Skin.
 No information available.
 mg/kg

12. ECOLOGICAL INFORMATION

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Hydrogen sulfide 7783-06-4	-	0.0448: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through 0.016: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through	0.022: 96 h <i>Gammarus</i> <i>pseudolimnaeus</i> mg/L LC50

Persistence and degradability • No information available

Bioaccumulation • No information available

Chemical Name	Partition coefficient
Petroleum Asphalt (non-paving use) 8052-42-4	>6
Hydrogen sulfide 7783-06-4	0.45

Other adverse effects • No information available

13. DISPOSAL CONSIDERATIONS

Disposal of wastes • Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated packaging • Do not reuse container

US EPA Waste Number U135

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrogen sulfide 7783-06-4	U135	-	-	U135

14. TRANSPORT INFORMATION

Note: • Material heated at or above 100°C/212°F is regulated.

DOT

UN/ID no. UN3257
Proper shipping name Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point
Hazard Class 9
Packing Group III
Special Provisions IB1, T3, TP3, TP29
Description UN3257, Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point (<TND>), 9, III
Emergency Response Guide Number 128

TDG

UN/ID no. UN3257
Proper shipping name Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point

Hazard Class	9
Packing Group	III
Description	UN3257, Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point, 9, III
MEX	
UN/ID no.	UN3257
Proper shipping name	Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point
Hazard Class	9
Packing Group	III
Description	UN3257, Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point, 9, III
ICAO (air)	Forbidden Not regulated
IATA	Forbidden Not regulated
IMDG	
UN/ID no.	UN3257
Proper shipping name	Elevated temperature liquid, n.o.s.*
Hazard Class	9
Packing Group	III
EmS-No.	F-A, S-P
Special Provisions	232, 274
Description	UN3257, Elevated temperature liquid, n.o.s.* , 9, III
RID	
UN/ID no.	UN3257
Proper shipping name	Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point
Hazard Class	9
Packing Group	III
Classification code	M9
Description	UN3257, Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point, 9, III
Labels	9
ADR	
UN/ID no.	UN3257
Proper shipping name	Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point
Hazard Class	9
Packing Group	III
Classification code	M9
Tunnel restriction code	(D)
Special Provisions	274, 643
Description	UN3257, Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point, 9, III, (D)
Labels	9
ADN	
Proper shipping name	Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point
Hazard Class	9
Packing Group	III
Classification code	M9
Special Provisions	274, 580, 643
Description	UN3257, Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point, 9, III
Hazard label(s)	9
Limited quantity (LQ)	0

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Petroleum Asphalt (non-paving use) 8052-42-4	X	X		X		X	X	X	X	X
Methyl Ester 67784-80-9	X	X		X		X	X	X		X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). 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 372

Chemical Name	SARA 313 - Threshold Values %
Hydrogen sulfide - 7783-06-4	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen sulfide 7783-06-4	100 lb	-	-	X

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrogen sulfide 7783-06-4	100 lb	100 lb	RQ 100 lb final RQ RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Petroleum Asphalt (non-paving use) 8052-42-4	X	X	X
Hydrogen sulfide 7783-06-4	X	X	X

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION
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Creation Date	09-Dec-2003
Revision Date	20-Oct-2015
Revision Note	This Safety Data Sheet meets US OSHA Revised Hazard Communication Standard 2012 (HCS) 29 CFR 1910.1200 and to the Canadian Hazardous Products Regulation SOR/2015-17 (WHMIS 2015) requirements.

Disclaimer

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

End of Safety Data Sheet