



SAFETY DATA SHEET

Creation Date 15-Oct-2015

Revision Date 07-May-2020

Version 5

1. IDENTIFICATION

Product Name Paving application asphalt including PG grade, MSCR grade, penetration grade, and AC viscosity grade

Synonyms Blended Asphalt, Paving Asphalt Base, Paving Asphalt, Polymer Modified Asphalt, Highly Modified Asphalt, PMA, HiMA, PPA modified asphalt, PG 76-22
AASHTO M320 graded PG 46-34, PG 52-28, PG 52-34, PG 58-22, PG 58-28, PG 58-34, PG 64-10, PG 64-16, PG 64-22, PG 64-28, PMA 64-28, PG 70-10, PG 70-16, PG 70-22, PMA PG 70-22, PMA PG 76-28, PMA 76-34, PMA PG 76-22, PMA PG 76-28, PMA PG 82-22, PMA PG 82-28
AASHTO M322 MSCR (S, H, V, E) equivalent grades
AASHTO M20 penetration grades 40 - 50 pen, 60 – 70 pen, 85 – 110 pen, 120 – 150 pen, 200 – 300 pen
AASHTO M226 viscosity grades AC 2.5, AC 5, AC 10, AC 20, AC 30, and AC 40

Product Code OCRA00023

Recommended Use Asphalt including polymer modified asphalt used in paving applications

UN/ID no. UN3257

Manufacturer Address Owens Corning Roofing and Asphalt, LLC
One Owens Corning Parkway
Toledo, Ohio 43659

Company Phone Number 1-800-GET-PINK or 1-800-438-7465
24 Hour Emergency Phone Number Chemtrec 1-800-424-9300 or 1-703-741-5970 CCN17393
Emergency Telephone 1-419-248-5330 (after 5 pm ET and weekends)

E-mail address safetydatasheet@owenscorning.com
Company Website <http://owenscorning.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 2A
Carcinogenicity	Category 2

Label elements

Warning

Hazard statements

Causes skin irritation
Causes serious eye irritation
Suspected of causing cancer



ERG Code	IF exposed or concerned: Get medical advice/attention
Eyes	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • IF INHALED: Remove person to fresh air and keep comfortable for breathing
Precautionary Statements - Storage	• Store locked up
Precautionary Statements - Disposal	• Dispose of contents/container to an approved waste disposal plant
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 • This petroleum based product may contain trace amounts of polycyclic aromatic compounds (PACs) including polynuclear aromatic hydrocarbons (PAHs) which can be released when product is heated
Unknown acute toxicity	• No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Product Components

Chemical name	CAS No.	Weight-%	Trade Secret
Petroleum Asphalt	8052-42-4	85-100	*
Trade Secret	Proprietary	0-10	*
Styrene-Butadiene-Styrene Block Copolymer	9003-55-8	0-10	*
Polyphosphoric Acid	8017-16-1	0-3	*

*The exact percentage (concentration) of composition has been withheld as a trade secret
 The remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product

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

- If respiratory symptoms develop, move victim to fresh air away from source of exposure and into fresh air
- If symptoms persist, call a physician
- If breathing is difficult, give oxygen
- If breathing has stopped, give artificial respiration. Get medical attention immediately

Ingestion

- **DO NOT** induce vomiting
- Drink 1 or 2 glasses of water
- If vomiting occurs naturally have the person lean forward to reduce the risk of aspiration
- Get medical attention

Most important symptoms and effects, both acute and delayed

- Irritation nose and throat
- Irritation of eyes and mucous membranes
- Skin irritation
- Unconsciousness
- Corneal damage
- Narcosis
- Decrease in motor functions
- Behavioral changes
- Edema
- conjunctivitis
- Defatting of skin
- Rash
- Treat symptomatically

Note to physicians

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** • No
- Sensitivity to Static Discharge** • No

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 ecotoxicology additional 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

7. HANDLING AND STORAGE

Precautions for safe handling

- Avoid contact with skin, eyes or clothing
- Avoid breathing fumes from hot material
- Hydrogen sulfide, an extremely flammable, colorless, highly toxic gas is emitted from heated asphalt and may accumulate in storage tanks or bulk transport containers
- Handle in accordance with good industrial hygiene and safety practice

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 8052-42-4	TWA: 0.5 mg/m ³ benzene-soluble aerosol fume, inhalable particulate matter	-	Ceiling: 5 mg/m ³ fume 15 min
Hydrogen sulfide 7783-06-4	STEL: 5 ppm TWA: 1 ppm	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*

Engineering Controls

- Showers
- Eyewash stations
- Ventilation systems

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 long sleeved shirt and long pants (cotton or other thermal protective material is recommended)
 - Wear protective gloves (heat insulated, leather, lined neoprene coated gloves are recommended when working with hot product)
- 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 eyes, skin and clothing
 - Wash exposed areas thoroughly after handling this product
 - Wash hands and arms frequently
 - Shower after exposure
 - Wash work clothes when soiled

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid when heated
Odor	Petroleum
Color	Brown, Black
Melting point / freezing point	
Boiling point / boiling range	
Flash point	> 218 °C > 550 °F
Evaporation rate	
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 (CO₂)
 - Carbon monoxide
 - Combustion products may include sulfur oxides and hydrogen sulfide

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Harmful by inhalation
 Harmful by skin contact
 Harmful if swallowed

Chemical name	Oral LD50	LD50/dermal/rat - NO UNITS (Wizards mg/kg)	Inhalation LC50
Petroleum Asphalt 8052-42-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 94.4 mg/m ³ (Rat) 4.5 h
Hydrogen sulfide 7783-06-4	-	-	= 700 mg/m ³ (Rat) 4 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 The table below indicates whether each agency has listed any ingredient as a carcinogen. 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).

Chemical name	ACGIH	IARC	NTP	OSHA
Petroleum Asphalt 8052-42-4	-	Group 2B	-	X
Styrene-Butadiene-Styrene Block Copolymer 9003-55-8	-	Group 3	-	-

*IARC (International Agency for Research on Cancer)
 Group 2B - Possibly Carcinogenic to Humans
 Group 3 - Not classifiable as a human carcinogen
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)
 X - Present*

Carcinogen

- The International Agency for Research on Cancer (IARC) concluded that “occupational exposure to straight-run bitumens and their emissions during road paving are possibly carcinogenic to humans.” Although IARC concluded that both human and animal evidence was inadequate to support a carcinogenic classification it determined that the mechanistic data was sufficient. IARC Press Release, October 18, 2011
- This petroleum based product contains a variable amount of polycyclic aromatic compounds (PACs) including polynuclear aromatic hydrocarbons (PAHs) which have been shown to cause cancer and respiratory damage in humans and laboratory animals

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Target Organ Effects Eyes, Respiratory system, Skin.
Aspiration hazard 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 pseudolimnaeus</i> mg/L LC50

Persistence and degradability • No information available

Bioaccumulation • No information available

Chemical name	Partition coefficient
Petroleum Asphalt 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

14. TRANSPORT INFORMATION

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 1B1, T3, TP3, TP29
Description UN3257, , Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point.
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.

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.

ICAO (air) Forbidden Not regulated

IATA Forbidden Not regulated

IMDG

UN number UN3257
 UN proper shipping name Elevated temperature liquid, n.o.s.*
 Transport hazard class(es) 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

ADR

ADN

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Petroleum Asphalt 8052-42-4	X	X		X		X	X	X	X	X
Styrene-Butadiene-Styrene Block Copolymer 9003-55-8	X	X				X	X	X	X	X
Polyphosphoric Acid 8017-16-1	X	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

CWA (Clean Water Act)

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

CERCLA

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



Warning

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Chemical name	California Proposition 65
Bitumen, extracts of steam-refined and air refined 9999-99-9	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Petroleum Asphalt 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

Creation Date 15-Oct-2015
Revision Date 07-May-2020
Revision Note SDS sections updated 13,

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