



Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.
Issue date: 1/11/2017 Revision date: 1/14/2022 Supersedes: 10/23/2018 Version: 3.2

SECTION 1: Identification

1.1. Identification

Product form	: Mixture
Product name	: Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6
Product code	: Modified PGAB

1.2. Recommended use and restrictions on use

Use of the substance/mixture	: Road Construction, Paving and Pavement Maintenance applications
------------------------------	---

1.3. Supplier

Manufacturer

Associated Asphalt Partners, LLC
P.O. Box 12626
Roanoke, VA 24027
T 540-345-8867
sds@associatedasphalt.com

1.4. Emergency telephone number

Emergency number	: 800-424-9300 (CCN#1853)
------------------	---------------------------

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin Irrit. 2	Causes skin irritation
Eye Irrit. 2A	Causes serious eye irritation
Skin Sens. 1A	May cause an allergic skin reaction
Carc. 2	Suspected of causing cancer

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Warning

Hazard statements (GHS US)

: Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
Suspected of causing cancer

Precautionary statements (GHS US)

: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands, forearms and face thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
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.
If exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

3.2. Mixtures

Name	Product identifier	%
Asphalt	CAS-No.: 8052-42-4	80 - 100
Lubricating oils, used, residues	CAS-No.: 129893-17-0	0 - 10
Carbon black	CAS-No.: 1333-86-4	0 - 7
Distillates, petroleum, solvent-refined heavy paraffinic	CAS-No.: 64741-88-4	0 - 1
Superphosphoric acid	CAS-No.: 8017-16-1	0 - 1
Fats and Glyceridic oils, vegetable	CAS-No.: 68956-68-3	0 - 1
Amidoamine and Polyamine Blend	CAS-No.: Trade Secret	0 - 1
Fatty amine derivatives	CAS-No.: Trade Secret	0 - 1

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. In case of contact with hot or molten product, get immediate medical advice/attention. Burns caused by molten material must be treated clinically. DO NOT remove asphalt from skin, as underlying tissue may easily be torn away.
First-aid measures after eye contact	: 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. In case of contact with hot or molten product, get immediate medical advice/attention. Burns caused by molten material must be treated clinically.
First-aid measures after ingestion	: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. Burns caused by molten material must be treated clinically.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: Hydrogen sulfide and other sulfur-containing gases can evolve from this product at elevated temperatures. Hydrogen sulfide can cause respiratory paralysis and death, depending on concentrations and duration of exposure. Do not rely on ability to smell vapors, since odor fatigue rapidly occurs. Effects of overexposure include irritation of the nose and throat, nausea, vomiting and signs of nervous system depression.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction. Exposure to sunlight after or during contact with this material may produce a skin reaction. Hot product may cause severe thermal burns.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Hot product may cause severe thermal burns.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If hydrogen sulfide is inhaled, the first priority in treatment should be the establishment of adequate ventilation and the administration of 100% oxygen. If unresponsive to supportive care, nitrites may be an effective antidote.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam, carbon dioxide, dry chemicals.
Unsuitable extinguishing media : Do not use a heavy water stream. Water stream may cause violent eruptions and spreading of asphalt.

5.2. Specific hazards arising from the chemical

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. When heated, this product may release toxic hydrogen sulfide (H₂S).

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin and clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. When using do not eat, drink or smoke. Significant concentrations of hydrogen sulfide (H ₂ S) gas can be generated and accumulate in storage tanks and bulk transport compartments which may require additional precautions and procedures during loading and unloading. Handle and open container with care.
Hygiene measures	: Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep out of the reach of children. Store locked up. Store tightly closed in a dry, cool and well-ventilated place.
--------------------	--

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

No additional information available

Asphalt (8052-42-4)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	0.5 mg/m ³ (fume, inhalable particulate matter)
ACGIH chemical category	Not Classifiable as a Human Carcinogen fume, coal tar-free

USA - ACGIH - Biological Exposure Indices

BEI (BLV)	2.5 µg/l Parameter: 1-Hydroxypyrene with hydrolysis - Medium: urine - Sampling time: end of shift at end of workweek (background) Parameter: 3-Hydroxybenzo(a)pyrene with hydrolysis - Medium: urine - Sampling time: end of shift at end of workweek (nonquantitative)
-----------	--

Lubricating oils, used, residues (129893-17-0)

No additional information available

Carbon black (1333-86-4)

USA - ACGIH - Occupational Exposure Limits

Local name	Carbon black
------------	--------------

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Carbon black (1333-86-4)	
ACGIH OEL TWA	3 mg/m ³ (inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2021
USA - OSHA - Occupational Exposure Limits	
Local name	Carbon black
OSHA PEL (TWA) [1]	3.5 mg/m ³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)	
No additional information available	
Fats and Glyceridic oils, vegetable (68956-68-3)	
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	5 mg/m ³ (mist, respirable fraction) 15 mg/m ³ (mist, total)
Superphosphoric acid (8017-16-1)	
No additional information available	
Amidoamine and Polyamine Blend (Trade Secret)	
No additional information available	
Fatty amine derivatives (Trade Secret)	
No additional information available	

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Wear suitable gloves resistant to chemical penetration. Wear insulated gloves when handling hot product.
Eye protection:
Wear eye/face protection
Skin and body protection:
Wear suitable protective clothing

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous liquid. Semi-solid at ambient temperature.
Color	: Blackish brown
Odor	: musty petroleum-like odor
Odor threshold	: No data available
pH	: No data available
Melting point	: 30 – 60 °C / 86 - 140 °F
Freezing point	: No data available
Boiling point	: > 450 °C / 842 °F
Flash point	: > 230 °C / 446 °F COC (open cup), >200 °C / 392 °F PMCC (closed cup)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.95 – 1.1
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: > 400 °C / 752 °F
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition. Do not allow hot molten material to contact water.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. When heated, this product may release toxic hydrogen sulfide (H₂S).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
 Acute toxicity (dermal) : Not classified
 Acute toxicity (inhalation) : Not classified

Asphalt (8052-42-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 94.4 mg/m ³ (Exposure time: 4.5 h)
Carbon black (1333-86-4)	
LD50 oral rat	> 15400 mg/kg
LC50 inhalation rat	> 4.6 mg/m ³ (Exposure time: 4 h)
Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 5530 mg/m ³ (Exposure time: 4 h)
Fatty amine derivatives (Trade Secret)	
LD50 oral rat	2500 mg/kg

Skin corrosion/irritation : Causes skin irritation.
 Serious eye damage/irritation : Causes serious eye irritation.
 Respiratory or skin sensitization : May cause an allergic skin reaction.
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Suspected of causing cancer.

Asphalt (8052-42-4)	
IARC group	2B - Possibly carcinogenic to humans

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HIMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Asphalt (8052-42-4)	
In OSHA Hazard Communication Carcinogen list	Yes
Carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Asphalt (8052-42-4)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0207 mg/l air Animal: rat, Guideline: other: OECD 451
Carbon black (1333-86-4)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0071 mg/l air Animal: rat, Animal sex: male
NOAEL (oral, rat, 90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0011 mg/l air Animal: rat, Animal sex: male
Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)	
LOAEL (oral, rat, 90 days)	125 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	≈ 1000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: Hydrogen sulfide and other sulfur-containing gases can evolve from this product at elevated temperatures. . Hydrogen sulfide can cause respiratory paralysis and death, depending on concentrations and duration of exposure. Do not rely on ability to smell vapors, since odor fatigue rapidly occurs. Effects of overexposure include irritation of the nose and throat, nausea, vomiting and signs of nervous system depression.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction. Exposure to sunlight after or during contact with this material may produce a skin reaction. Hot product may cause severe thermal burns.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Hot product may cause severe thermal burns.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)	
LC50 - Fish [1]	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Persistence and degradability	Not established.
-------------------------------	------------------

12.3. Bioaccumulative potential

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Bioaccumulative potential	Not established.
---------------------------	------------------

Asphalt (8052-42-4)

BCF - Fish [1]	(no bioaccumulation expected)
Partition coefficient n-octanol/water	> 6

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

DOT NA No : UN3257

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Elevated temperature liquid, n.o.s. (Asphalt)*

*at or above 100°C and below its flashpoint.

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 9

Hazard labels (DOT) : 9



14.4. Packing group

Packing group (DOT) : III

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

Emergency Response Guide (ERG) Number : 128

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Hydrogen sulfide	CAS-No. 7783-06-4
2,2'-iminodiethanol	CAS-No. 111-42-2

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Styrene-butadiene copolymer (9003-55-8)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

Lubricating oils, used, residues (129893-17-0)	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance.

Hydrogen sulfide (7783-06-4)	
CERCLA RQ	100 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
Section 302 EPCRA Reportable Quantity (RQ)	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb

2,2'-iminodiethanol (111-42-2)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	100 lb

15.2. International regulations

No additional information available

15.3. US State regulations

⚠ WARNING: This product can expose you to Asphalt, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Asphalt(8052-42-4)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Carbon black(1333-86-4)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Hydrogen sulfide(7783-06-4)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Triethanolamine(102-71-6)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Component	State or local regulations
2,2'-iminodiethanol(111-42-2)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Tetraethylenepentamine(112-57-2)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Triethylenetetramine(112-24-3)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Ethanol, 2-[(2-aminoethyl)amino]-(111-41-1)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Fats and Glyceridic oils, vegetable(68956-68-3)	U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Soybean oil(8001-22-7)	U.S. - Pennsylvania - RTK (Right to Know) List
Corn oil(8001-30-7)	U.S. - Pennsylvania - RTK (Right to Know) List

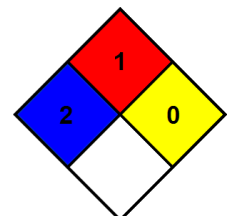
SECTION 16: Other information

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Issue date : 01/11/2017
 Revision date : 01/14/2022
 Other information : None.

Full text of H-phrases	
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1A	Skin sensitization, Category 1A

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
 NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
 NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating
 Health : 2 Moderate Hazard - Temporary or minor injury may occur
 Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Polymer Modified Asphalt, Polymer Modified Performance Graded Asphalt Binder, PG 64E-22, PG 64H-22, PG 64V-22, PG 64-28M, PG 64H-28, PG 64V-28, PG 70-22, PG 70-22M, PG 70-28, PG 70-28 BRIC, PG 76-22, PG 76-22 ARB, PG 76-22 PMA, PG 76-22HP, PG 76-22P, PG 76-22 Port, PG 76E-22, PG 76-28, PG 76-28 BRBC, PG 76E-28, PG 76E-28 HP, PG 82-10, PG 82-22, PG 82-22 PMA, PG 82-22 SP, BDWSC, FlexGard®, HiMA, High Polymer, StellarFlex® CR, StellarFlex FR®, StellarFlex® GTRH, StellarFlex® GTRH-HP ; Polymer Modified Concentrate Grades – ARB Concentrate, Concentrate 6, Concentrate 8, Concentrate 10, Concentrate 12, Concentrate 14, StellarFlex® SP Blendstock, StellarFlex® SP Concentrate; Polymer Modified Emulsion Base Grades - PMEM-3, PMEM-6

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:

SDS update.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

Although reasonable care has been taken in the preparation of such information, Associated Asphalt Partners, LLC extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of this information for application to the purchaser's intended purpose or for consequence of its use.