



MURRIETA VALLEY
UNIFIED SCHOOL DISTRICT

Murrieta Valley Unified School District
41870 McAlby Court
Murrieta, CA 92562

DISTRICT BID ADDENDUM NO. 1

Date: November 12, 2024

To: All Bidders

From: Nadia Brewer, Director of Purchasing

Project: 2024-25-05 Asphalt Sealcoating and Repair Districtwide

The attached Addendum is issued for the purposes of amending certain requirements of the bid and hereby made part of and incorporated in full force as part of the Contract Documents. Unless hereinafter specifically noted or specified otherwise, all work shall confirm to the applicable provisions of the Contract Documents.

BID ADDENDUM NO. 1 DESCRIPTION:

1. Please review revised Unit Price Form – 11/12/24, items 160-167.
2. Please review approved Request for Substitution
 - Seal Coat – GoldStar HP#310
 - Crack Seal – GoldStar #615

Pre-Bid RFI Responses

Question: I wanted to confirm that there is no site visit for this project.

Answer: Correct, there is no pre-bid site visit. This is a line item/unit price bid consisting of District-wide routine, recurring and usual maintenance work. Please reference the Bid Form in the Bid Documents for additional information.

Question: How much is the engineer's estimate?

Answer: There is no engineer's estimate for the project. MVUSD anticipates \$250,000 in annual expenditures under this contract category. This amount is approximate only and is intended to serve as a base for cost projections. MVUSD is not bound to assign this dollar volume nor limited to this dollar volume.

Question: Is there a budget for allowance?

Answer: No, this is a line item/unit price bid with the low bid being determined by calculating and analyzing a job scenario which includes line items representing common **MVUSD** projects. **Bidder** must meet all the terms and specifications. Notwithstanding, **MVUSD** reserves the right to award the bid as deemed necessary and in the best interest of **MVUSD**. The job scenario will be made available during the Bid Opening to all bidders.

Question: Do we need to be prequalified?

Answer: *Prequalification in accordance with California Public Contract Code section 20111.5 is not required for this project.*

Question: Can I get clarification on the type of licenses you require for Bid No. 2024-25-05? The Bid docs state you need an A, B or C-12 and C-8.

Answer: *The Contractor must possess throughout the Project a Class A, or B or C-12 and Class C-8 Contractor's Licenses, issued by the State of California, which must be current and in good standing.*

Question: Would a Class A license and C-12 cover the requirement for this bid?

Answer: *Yes, if the contractor possesses a valid and active Class A license, that fulfills the requirement.*

Question: Typically builder's risk insurance is coverage that protects a person's or organization's insurable interest in materials, fixtures, and /or equipment being used in the construction or renovation of a building or structure should those items sustain physical loss or damage from a covered cause. As we are not working on a building or structure, I was unsure if this is required under this contract. Please confirm.

Answer: *Builder's Risk is not required to be provided by the Contractor for this bid/project.*

Question: Section (4.4.4 page 115) states "Contractor shall provide the Inspector with the temporary facilities as required". Please confirm no facilities will be required for this project.

Answer: *Temporary facilities are not required for this bid/project.*

Question: Section (10.2.11 page 176) states that the contractor will be responsible for security services during construction if the district deems necessary; please advise if any security will be required.

Answer: *The District does not anticipate any security services will be needed for any project.*

Question: (Section 3.12) This section states that the final cleanup will consist of cleaning items that are out of scope on this project. Please confirm that we will only be responsible for cleaning the site in areas we have performed work and within our scope.

Answer: *The contractor shall be responsible for cleaning, in accordance with section 3.12 Cleaning Up, for everything related to their scope of work including areas surrounding their site/laydown area which may be impacted by their scope of work.*

Question: Can you please confirm the 5% retention will be released after completion of each site and not after completion of the complete contract term.

Answer: *Confirmed, 5% retention may be withheld on invoices for individual work orders exceeding \$25,000.00 for work completed under this contract.*

Question: Warranty Section states that the 1 year warranty is required from completion of project, which is a yearlong contract. Please confirm warranty will be for 1 year from completion of work performed, not completion of the contract term.

Answer: *Confirmed, the 1-year warranty will be from completion of the work order performed, not the completion of the contract term.*

Question: As this contract is a 1 year with 4 optional 1-year extensions, can you confirm if these extensions are at the sole discretion of the district? Or mutual agreement between the contractor and district?

Answer: *Please refer to the Bid Form, Section 32 Contract Extension for additional information. The District*

reserves the right to extend the Contract for four (4) additional 1-year terms. At the time of the bid submission, the Contractor must authorize whether the Contract can be extended with an allowance for a cost increase not to exceed the Riverside County CPI each year.

Question: Should the bid bond be for 10% of all of the items totaled up? For 10% of an anticipated annual amount? Or for a specific amount? Please advise.

Answer: *Please refer to the Bid Form, Section 6, Page 35. Bid bond (10% of the estimated first year expenditure of \$250,000.000).*

Question: Please confirm what type of slurry is being requested (items 60-64).

Answer: *Please refer to Caltrans/Department of Transportation (DOT) approved materials and application methods.*

Question: Are items 152-159 for remove & replace or new? There is not a demo item for these.

Answer: *Please refer to revised bid form, items 160-167 – Demolition of existing concrete curb and gutter.*

Question: How will any minor items not included on the bid form that may be requested be addressed?

Answer: *Items not specifically covered in the line items shall be covered using line items 102-114 which consists of Operated Equipment, Labor, and Material that are not covered in the unit prices.*

Question: Will a minimum move charge apply for seal/slurry items? (items 60-64, 76-80, 81-85)

Answer: *Minimum move on/off charges need to be built into the unit prices. Please refer to the Bid Form, Section 33 Bid Price Sheet, "All pricing herein to include all standard tools, supplies, equipment, applicable delivery, mileage, taxes, insurance, bonds, and all miscellaneous costs normally required to complete the job."*

Question: The 4" flat work section (140-145) is asking for rebar. Rebar is not typically placed in 4" sections as the thinner section of concrete can "pop" with the metal inside. Please confirm if this rebar will be required?

Answer: *Yes, rebar is required in the unit price cost for line items 140-145.*

ATTACHMENTS:

- Addendum 01 – Revised Unit Price Bid Form dated 11/12/24
- Addendum 01 – Approved Substitution Request Form

END OF DISTRICT BID ADDENDUM NO. 1

ASPHALT PAVING, SEALCOATING AND REPAIR

Addendum 01 – Revised Unit Price Form 11/12/24

ITEM #	DESCRIPTION	UNIT OF MEASURE	BID PRICE
	3" REMOVE and REPLACE ASPHALT		
1	Minimum charge	Minimum charge	\$
2	150 SF to 500 SF	Square Foot	\$
3	501 SF to 1,500 SF	Square Foot	\$
4	1,501 SF to 5,000 SF	Square Foot	\$
5	5,001 SF to 10,000 SF	Square Foot	\$
6	10,001 SF +	Square Foot	\$
	4" REMOVE and REPLACE ASPHALT		
7	Minimum charge	Minimum charge	\$
8	150 SF to 500 SF	Square Foot	\$
9	501 SF to 1,500 SF	Square Foot	\$
10	1,501 SF to 5,000 SF	Square Foot	\$
11	5,001 SF to 10,000 SF	Square Foot	\$
12	10,001 SF +	Square Foot	\$
	6" REMOVE and REPLACE ASPHALT		
13	Minimum charge	Minimum charge	\$
14	150 SF to 500 SF	Square Foot	\$
15	501 SF to 1,500 SF	Square Foot	\$
16	1,501 SF to 5,000 SF	Square Foot	\$
17	5,001 SF to 10,000 SF	Square Foot	\$
18	10,001 SF +	Square Foot	\$
	4" REMOVE and 6" REPLACE ASPHALT		
19	Minimum charge	Minimum charge	\$
20	150 SF to 500 SF	Square Foot	\$
21	501 SF to 1,500 SF	Square Foot	\$
22	1,501 SF to 5,000 SF	Square Foot	\$
23	5,001 SF to 10,000 SF	Square Foot	\$
24	10,001 SF +	Square Foot	\$
ITEM #	DESCRIPTION	UNIT OF MEASURE	BID PRICE
	SKIN PATCH – various locations – average ½" – 1" thick		
25	Minimum charge	Minimum charge	\$

26	150 SF to 500 SF	Square Foot	\$
27	501 SF to 1,500 SF	Square Foot	\$
28	1,501 SF to 5,000 SF	Square Foot	\$
29	5,001 SF to 10,000 SF	Square Foot	\$
30	10,001 SF +	Square Foot	\$
	OVERLAY – one location, “Petromat” fabric with 1½” overlay		
31	Minimum charge	Minimum Charge	\$
32	500 SF to 1,000 SF	Square Foot	\$
33	1,001 SF to 5,000 SF	Square Foot	\$
34	5,001 SF to 10,000 SF	Square Foot	\$
35	10,001 SF to 20,000 SF	Square Foot	\$
36	20,001 SF +	Square Foot	\$
	OTHER		
37	Place 1” additional thickness asphalt	Sq. Ft. to each unit	\$
38	Place 1” additional thickness asphalt – including removal	Sq. Ft. to each unit	\$
	SPEED BUMPS – Average 35’ long		
39	Minimum charge	Minimum Charge	\$
40	Bumps	Each	\$
	6” AC BERM		
41	Minimum charge	Minimum Charge	\$
42	100 LF to 500 LF	Lineal Foot	\$
43	501 LF to 1,500 LF	Lineal Foot	\$
44	1,501 LF +	Lineal Foot	\$
	GRUB/ROUGH GRADE GRASS OR DIRT AREA, INCLUDING REMOVAL AND DISPOSAL OF SPOILS, AND PLACE AVERAGE 3” AC PAVING		
45	Minimum charge	Minimum charge	\$
ITEM #	DESCRIPTION	UNIT OF MEASURE	BID PRICE
46	150 SF to 500 SF	Square Foot	\$
47	501 SF to 1,500 SF	Square Foot	\$
48	1,501 SF to 5,000 SF	Square Foot	\$
49	5,001 SF to 10,000 SF	Square Foot	\$

50	10,001 SF +	Square Foot	\$
51	Place 1" thick AGG base, including removal	Sq. Ft. to each unit	\$
52	Raise utility/yard box to final grade	EACH	\$
	RAMP TRANSITION		
53	Minimum move-in per site	Site	\$
54	Minimum move-in per ramp	Ramp	\$
	REDWOOD HEADERS		
55	Minimum charge	Minimum charge	\$
56	2" x 4" 100 LF and under	Lineal Foot	\$
57	2" x 6" 100 LF and under	Lineal Foot	\$
58	2" x 4" over 100 LF	Lineal Foot	\$
59	2" x 6" over 100 LF	Lineal Foot	\$
	SLURRY COAT		
60	1 SF to 2000 SF	Square Foot	\$
61	2001 SF to 10,000 SF	Square Foot	\$
62	10,001 SF to 20,000 SF	Square Foot	\$
63	20,001 SF to 40,000 SF	Square Foot	\$
64	40,001 SF +	Square Foot	\$
	STRIPING (Restriping) AND STENCIL		
65	3" Wide Solid Lines (applied in 15 mill minimum thickness)	Lineal Foot	\$
66	4" Wide Solid Lines (applied in 15 mill minimum thickness)	Lineal Foot	
67	Miscellaneous legends	Lineal Foot	\$
68	Stencils 8"-12" (Letters & Numbers)	Per Letter	\$
69	Stencils 24" (Letters & Numbers)	Per Letter	\$
70	Four Square	Each	\$
ITEM #	DESCRIPTION	UNIT OF MEASURE	BID PRICE
71	Hop Scotch	Each	\$
72	Basketball Full Court	Each	\$
73	Stop Bar/Limit Line	Each	\$
74	Blue Handicap Stall	Each	\$
75	Curb Painting (red/yellow/green/white)	Lineal Foot	\$
	SEALCOAT – unit prices indicate one coat application		

76	1 SF to 2000 SF	Square Foot	\$
77	2001 SF to 10,000 SF	Square Foot	\$
78	10,001 SF to 20,000 SF	Square Foot	\$
79	20,001 SF to 40,000 SF	Square Foot	\$
80	40,001 SF +	Square Foot	\$
	SEALCOAT – unit prices indicate two coat application		
81	1 SF to 2000 SF	Square Foot	\$
82	2001 SF to 10,000 SF	Square Foot	\$
83	10,001 SF to 20,000 SF	Square Foot	\$
84	20,001 SF to 40,000 SF	Square Foot	\$
85	40,001 SF +	Square Foot	\$
86	ASPHALT RAMP EXTENSION – typically 4' x 5', 0 – 3" thick	Each	\$
87	CRACK REPAIR – grind and fill 100 LF and under	Lineal Foot	\$
88	CRACK REPAIR – grind and fill over 100 LF	Lineal Foot	\$
	HOT RUBBERIZED FILL		
89	0 - 500 LF	Lineal Foot	\$
90	501 -1,500 LF	Lineal Foot	\$
91	1,501 LF +	Lineal Foot	\$
	COLD EMULSIFIED FILL		
92	0 - 500 LF	Lineal Foot	\$
93	501 -1,500 LF	Lineal Foot	\$
ITEM #	DESCRIPTION	UNIT OF MEASURE	BID PRICE
94	1,501 LF +	Lineal Foot	\$
95	GRIND ASPHALT AT CONCRETE EDGES TO MATCH ELEVATIONS 100 LF and under	Lineal Foot	\$
96	GRIND ASPHALT AT CONCRETE EDGES TO MATCH ELEVATIONS over 100 LF	Lineal Foot	\$
97	CONCRETE DRAIN BOX 12" X 12" X 12" WITH TRAFFIC GRATE IN ASPHALT OR CONCRETE	Each	\$
98	4' WHEEL STOPS/PARKING BLOCK (under 25 qty)	Each	\$
99	4' WHEEL STOPS/PARKING BLOCK (25 + qty)	Each	\$

	PARKING LOT SWEEPING		
100	Less than 5,000 SF	Square Foot	\$
101	5,000 SF or more	Square Foot	
	OPERATED EQUIPMENT – not covered in unit prices		
102	Backhoe	Hour	\$
103	Dump Truck	Hour	\$
104	Roller	Hour	\$
105	Skip Loader	Hour	\$
106	Bobcat	Hour	\$
107	Water Truck	Hour	\$
108	Blade	Hour	\$
109	950 Loader	Hour	\$
	LABOR – not covered in unit prices		
110	Foreman	Hour	\$
111	Journeyman	Hour	\$
112	Apprentice	Hour	\$
	MATERIAL – not covered in unit prices		
113	% mark up on material under \$5,000	Percentage	%
114	% mark up on material over \$5,000	Percentage	%
115	% ADDED TO THE COST FOR WORK REQUESTED ON NATIONAL HOLIDAYS OR DURING PREMIUM TIME (AFTER 3:30 P.M. AND WEEKENDS)	Percentage	%

CONCRETE REPAIR AND MAINTENANCE

ITEM #	DESCRIPTION	UNIT OF MEASURE	BID PRICE
	Removal Of Existing Concrete Up To 4" Thick (Reinforced)		
116	1 SF to 99 SF	Square Foot	\$
117	100 SF to 499 SF	Square Foot	\$
118	500 SF to 1,000 SF	Square Foot	\$
119	1,001 SF to 3,000 SF	Square Foot	\$
120	3,001 SF to 6,000 SF	Square Foot	\$
121	6,001 to 12,000 SF	Square Foot	\$
	Removal Of Existing Concrete Up To 4" Thick (Unreinforced)		
122	1 SF to 99 SF	Square Foot	\$
123	100 SF to 499 SF	Square Foot	\$
124	500 SF to 1,000 SF	Square Foot	\$
125	1,001 SF to 3,000 SF	Square Foot	\$
126	3,001 SF to 6,000 SF	Square Foot	\$
127	6,001 to 12,000 SF	Square Foot	\$
	Removal Of Existing Concrete Up To 6" Thick (Reinforced)		
128	1 SF to 99 SF	Square Foot	\$
129	100 SF to 499 SF	Square Foot	\$
130	500 SF to 1,000 SF	Square Foot	\$
131	1,001 SF to 3,000 SF	Square Foot	\$
132	3,001 SF to 6,000 SF	Square Foot	\$
133	6,001 to 12,000 SF	Square Foot	\$
	Removal Of Existing Concrete Up To 6" Thick (Unreinforced)		
134	1 SF to 99 SF	Square Foot	\$
135	100 SF to 499 SF	Square Foot	\$
136	500 SF to 1,000 SF	Square Foot	\$
137	1,001 SF to 3,000 SF	Square Foot	\$
138	3,001 SF to 6,000 SF	Square Foot	\$
139	6,001 to 12,000 SF	Square Foot	\$
	4" Thick Flatwork: 3,500 PSI, ¾" Aggregate, #4 Rebar @ 18" OC Ea. Way, ¼" Tooled Joints @ 6' OC (Sawcut Ok If Same Day), Including Curing Compound		
140	1 SF to 100 SF	Square Foot	\$
141	101 SF to 249 SF	Square Foot	\$
ITEM #	DESCRIPTION	UNIT OF	BID

		MEASURE	PRICE
142	250 SF to 2,500 SF	Square Foot	\$
143	2,501 to 5,000 SF	Square Foot	\$
144	5,001 to 7,500 SF	Square Foot	\$
145	7,501 to 10,000 SF	Square Foot	\$
	6" Thick Flatwork: 3,500 PSI, ¾" Aggregate, #4 Rebar @ 18" OC Ea. Way, ¼" Tooled Joints @ 6' OC (Sawcut Ok If Same Day), Including Curing Compound		
146	1 SF to 100 SF	Square Foot	\$
147	101 SF to 249 SF	Square Foot	\$
148	250 SF to 2,500 SF	Square Foot	\$
149	2,501 to 5,000 SF	Square Foot	\$
150	5,001 to 7,500 SF	Square Foot	\$
151	7,501 to 10,000 SF	Square Foot	\$
	6" H X 18" W "A" Curb and Gutter: 3,500 PSI, ¾" Aggregate, Single Horizontal #4 Rebar, ¼" Tooled Joints @ 12' OC, Including Curing Compound		\$
152	1 LF to 99 LF	Lineal Foot	\$
153	100 LF and less	Lineal Foot	\$
154	101 LF to 249 LF	Lineal Foot	\$
155	250 LF TO 500 LF	Lineal Foot	\$
156	501 LF – 1,000 LF	Lineal Foot	\$
157	1,001 LF – 2,000 LF	Lineal Foot	\$
158	2,001 LF – 3,000 LF	Lineal Foot	\$
159	Over 3,000 LF	Lineal Foot	\$
	Demolition of Existing Concrete Curb and Gutter		
160	1 LF to 99 LF	Lineal Foot	\$
161	100 LF and less	Lineal Foot	\$
162	101 LF to 249 LF	Lineal Foot	\$
163	250 LF TO 500 LF	Lineal Foot	\$
164	501 LF – 1,000 LF	Lineal Foot	\$
165	1,001 LF – 2,000 LF	Lineal Foot	\$
166	2,001 LF – 3,000 LF	Lineal Foot	\$
167	Over 3,000 LF	Lineal Foot	\$
	6" Reinforced 3' Wide Concrete Flowline		
168	0 – 100 LF	Lineal Foot	\$
169	101-500 LF	Lineal Foot	\$
170	501 – 1,000 LF	Lineal Foot	\$
171	1,001 – 2,500 LF	Lineal Foot	\$
172	Over 2,501 LF	Lineal Foot	\$

	Sawcutting		
173	Concrete - Up to 6" – 200 LF and under	Lineal Foot	\$
174	4" Concrete – Over 200 LF	Lineal Foot	\$
175	6" Concrete – Over 200 LF	Lineal Foot	\$
176	Asphalt – Up to 6" - 200 LF and under	Lineal Foot	\$
177	4" Asphalt – Over 200 LF	Lineal Foot	\$
ITEM #	DESCRIPTION	UNIT OF MEASURE	BID PRICE
178	6" Asphalt – Over 200 LF	Lineal Foot	\$
	6" W x 6" H Mowstrip: 3,500 PSI, ¾" Aggregate, Single Horizontal #4 Rebar, ¼" Tooled Joints @ 10' OC, Including Curing Compound		
179	1 LF to 100 LF	Lineal Foot	\$
180	101 LF to 250 LF	Lineal Foot	\$
181	251 LF to 500 LF	Lineal Foot	\$
182	501 LF to 1,000 LF	Lineal Foot	\$
183	1,001 LF to 2,000 LF	Lineal Foot	\$
	4" C.M.B. (Crushed Miscellaneous Base)		
184	500 SF and under	Square Foot	\$
185	501 SF to 1,000 SF	Square Foot	\$
186	1,001 SF to 3,000 SF	Square Foot	\$
187	3,001 SF to 6,000 SF	Square Foot	\$
188	6,001 SF to 12,000 SF	Square Foot	\$
	6" C.M.B. (Crushed Miscellaneous Base)		
189	500 SF and under	Square Foot	\$
190	501 SF to 1,000 SF	Square Foot	\$
191	1,001 SF to 3,000 SF	Square Foot	\$
192	3,001 SF to 6,000 SF	Square Foot	\$
193	6,001 SF to 12,000 SF	Square Foot	\$

REQUEST FOR SUBSTITUTION AT TIME OF BID

Addendum 01 - 11/12/24

Pursuant to Public Contract Code section 3400, bidder submits the following request to Substitute with the bid that is submitted. I understand that if the request to substitute is not an “or equal” or is not accepted by District and I answer “no” I will not provide the specified item, then I will be held non-responsive and my bid will be rejected. With this understanding, I hereby request Substitution of the following articles, devices, equipment, products, materials, fixtures, patented processes, forms, methods, or types of construction:

	Specification Section	Specified Item	Requested Substituted Item	Contractor Agrees to Provide Specified Item if request to Substitute is Denied ¹ (circle one)	District Decision (circle one)
1.	Seal Coat	Guard Top	GoldStar HP#310	<input checked="" type="radio"/> Yes <input type="radio"/> No	Grant Deny
2.	Crack Seal	Guard Top	GoldStar #615	<input checked="" type="radio"/> Yes <input type="radio"/> No	Grant Deny
3.				Yes No	Grant Deny
4.				Yes No	Grant Deny
5.				Yes No	Grant Deny
6.				Yes No	Grant Deny
7.				Yes No	Grant Deny
8.				Yes No	Grant Deny
9.				Yes No	Grant Deny
10.				Yes No	Grant Deny
11.				Yes No	Grant Deny
12.				Yes No	Grant Deny

This Request Form must be accompanied by evidence as to whether the proposed Substitution (1) is equal in quality, service, and ability to the Specified Item; (2) will entail no change in detail, construction, and scheduling of related work; (3) will be acceptable in consideration of the required design and artistic effect; (4) will provide no cost disadvantage to the District; (5) will require no excessive or more expensive maintenance, including adequacy and availability of replacement parts; (6) will require no change of the construction schedule or milestones for the Project; and, (7) Contractor agrees to pay for any DSA Fees or other Governmental Plan check costs associated with this Substitution Request. (See General Conditions Section 3.6)

The undersigned states that the following paragraphs are correct:

1. The proposed Substitution does not affect the dimensions shown on the Drawings.
2. The undersigned will pay for changes to the building design, including Architect, engineering, or other consultant design, detailing, DSA plan check or other governmental plan check costs, and construction costs caused by the requested substitution.
3. The proposed substitution will have no adverse effect on other trades, the Contract Time, or specified warranty requirements.
4. Maintenance and service parts will be available locally for the proposed substitution.
5. In order for the Architect to properly review the substitution request, within five (5) days following the opening of bids, the Contractor shall provide samples, test criteria, manufacturer information, and any other documents requested by Architect or Architect's engineers or consultants, including the submissions that would ordinarily be required under Article 3.7 for Shop Drawings along with a document which provides a side by side comparison of key characteristics and performance criteria (often known as a CSI side by side comparison chart).
6. If Substitution Request is accepted by the District, Contractor is still required to provide a Submittal for the substituted item pursuant to Article 3.7 and shall provide required Schedule information (including schedule fragnets, if applicable) for the substituted item as required under Article 8.3.2.1. The approval of the Architect, Engineer, or District of the substitution request does not mean that the Contractor is relieved of Contractor's responsibilities for Submittals, Shop Drawings, and schedules under Article 3.7 and 8.3.2 if the Contractor is awarded the Project.

Name of Bidder: NPG, Inc.

By: 

District: NVUSD - Director of Purchasing

By: Nalle Breuer

To be completed by District:



GoldCoat SealCoat

HP #310

GoldCoat SealCoat HP #310

Industry-leading sealcoat, engineered and manufactured for Contractors, Public Agencies, Property Managers, and Schools. GoldCoat HP #310 protects against oxidation and deterioration caused by adverse weather conditions, ultraviolet sun rays, and other environmental stressors. Additionally, GoldCoat HP #310 extends the life of your asphalt pavement by filling in small cracks, slowing the expansion of existing cracks, and delaying the need for more costly structural repairs. When you choose GoldCoat HP #310 you can rest assured that you are applying one of the best premium sealcoat products on the market. GoldCoat HP #310 will look great, provide superior protection, and pass the test of time.



Each gallon of HP #310 is manufactured at the GoldStar Asphalt Products manufacturing facility in Perris, CA. Goldstar's facility is equipped with the latest technology, ensuring consistency in every batch of GoldCoat HP #310. Each batch is thoroughly tested on-site in Goldstar's state-of-the-art laboratory. Centrally located in Southern California, HP #310 can be economically delivered, stored, and agitated on your job site anywhere in Southern California.



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Info@GoldStarAsphalt.com
T +1 888 770 7325





Data / Submittals

GoldCoat SealCoat HP #310

Specifications Methods	Minimum	Maximum	Test Methods
Cone Penetration @ 77 F, dmm	350	650	ASTM D217
Nonvolatile Components %Weight	55	65	See Note 1
% Nonvolatile Soluble in Trichloroethylene by Wt.	15	25	ASSHTO T-45-56

	Requirements	Results	
Accelerated Weathering (4 years exposure)	Passes per spec	Passes	Federal Spec. TT-C-555B
	No leaks or weight gain	Passes	Federal Spec. TT-C-555B
Ultraviolet Resistance (10 year exposure)	Apply per spec	Wet Track Abrasion Test ASTM 3910 Passes / Excellent 12-20 Depending on Dilution	
Typical Density- lbs./gal	WPG 10 - 11. pounds Can dilute up to 25%		
Color (as received) (cured film)	Deep Black		

***Note 1:** Method for determination of non-volatile components: Weight 10 grams of homogeneous product into a previously tarred, small ointment can lid. Place in a constant temperature oven at 325 degrees for 1 1/2 hours. Cool, re-weigh, and calculate non-volatile components.

Suggested Architect's Short Specification

SURFACE PREPARATION:	Repair damaged areas of asphalt. Crack fill surface cracks ¼" or wider with GoldStar #315 Premium Cold Pour Crack Filler or GoldFlex #615 Hot Crack Filler and prime oil-damaged areas with GoldStar #330 Oil Sealer. Clean asphalt surface before application. All water and sprinklers must be turned off 24 hours before start and must remain off until sealer is completely dried.
APPLICATION:	GoldStar HP#310 SealCoat must be applied to structurally sound pavement; any asphalt patching or crack filling should be done prior to the application of the seal coat. Squeegee or machine apply. Spread material in an even and uniform direction to eliminate gaps and ridges.
DRYING TIME:	Eight hours maximum at 70F. The recommended air temperature range for application is 70F to 95F.
WEATHER LIMITATIONS:	The application should be postponed if wet or freezing weather is expected within 24 hours following the application. When ambient temperature exceeds 90F, pavement should be misted with a water-based fog system before application.
COVERAGE:	Medium aggregate surfaces will use an average of 15-30 gallons of GoldStar HP #310 SealCoat per 1,000 square feet of asphalt pavement surface. Actual yield will vary depending on frequency of sealcoat applications, asphalt pavement texture, and age.



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SAFETY DATA SHEET

Issue Date 1-1-2016

Revision Date 4-May-2016

Version 1

1. IDENTIFICATION

Identification

Material / Product Name:

GoldCoat Seal HP #310

CAS No.

8052-42-4

Other means of identification

Product Code:

HP #310

Synonyms:

Seal Coat

Recommended use of product & Restriction on use

Recommended use:

Asphalt Sealant

Use restriction:

Information not available

Supplier of the safety data sheet details

Manufacturer Address:

Goldstar Asphalt products

1354 Jet way Perris Ca, 92571

Company Contact: Jeff Nelson

Telephone Number: 888-770-7325

Website: GoldstarAsphalt.com

Emergency telephone number

Emergency telephone:

CHEMTREC: 800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Of the substance or mixture:

Skin corrosion / irritation

Category 2

Serious eye damage / eye irritation

Category 2

Respiratory sensitization

Category 1

Skin sensitization

Category 1



Signal Word: WARNING

Hazard Statements

1. May cause skin and eye irritation.
2. Aspiration hazard if swallowed.
3. Vapors may have odor, which may cause headaches, nausea & vomiting.
4. Symptoms of overexposure include lightheadedness, watering of eyes and cough.

Precautionary Statements

Wear protective gloves/protective clothing/eye protection/face protection
 Wash hands thoroughly after handling
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area

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 ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
 Wash contaminated clothing before reuse
IF Inhaled: Call a POISON CENTER or doctor if you feel unwell

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
 Store locked up.

3. COMPOSITION/INFORMATION

Substance

Chemical Name	CAS No.	Weight-%
Quartz	14808-60-7	10-30
Water	7732-18-5	15-40
Slate	1335-30-4	10-30
Asphalt	8052-42-4	10-30
Carbon	1333-86-4	0.1-1
Bentonite	1302-78-9	1-5

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

4. FIRST AID MESURES

First aid measures

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact: Wash skin with soap and water.

Inhalation: at elevated temperatures may cause irritation of the eyes and respiratory tract. Although this product is not known to cause respiratory problems, if breathing is difficult, safely remove victim to fresh air provided oxygen.

Ingestion: Get immediate medical. Do not induce vomiting due to danger of aspirating liquid into lungs. Gastric lavage may be required.

Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians: THIS PRODUCT IS ASPHALT SEALER, IT IS COLD APPLIED. THIS PRODUCT DOES NOT HAVE ESTABLISHED EXPOSURE LIMITS.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Exercise care when using water as contact with hot asphalt products may produce steam.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Explosion data:

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Flash Point None. **NON-FLAMBLE**

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. Decomposition may produce fumes, smoke, oxides of carbon and Hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Use protective clothing impervious to this material

Environmental precautions

Environmental precautions: This material should be prevented from uncontrolled applications to soil or Earth Material is a water pollutant and should be prevented from entering storm water, Sewage drainage systems and bodies of water.

Methods and material for containment and cleaning up

Methods for containment: Stop leakage at once. Dam area with soils, sand or earth. Clean area by hand, (No Water) used all safety measures handling products.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Special Precautions: Use protective clothing impervious to this material.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed when not in use. Use only with adequate ventilation.
Keep only in the original container/package in a cool well-ventilated place.
Keep away from fire. Keep container closed when not in use.

Incompatible materials: None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines: This product, as supplied, does not contain any hazardous materials

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum Asphalt 8052-42 4	TWA: 0.5 mg/m ³ benzene soluble aerosol fume, inhalable fraction	-	Ceiling: 5 mg/m ³ fume 15 min

Appropriate engineering controls

Engineering Controls: Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection: No special technical protective measures are necessary.

Skin and body protection: No special technical protective measures are necessary.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state:	Stable liquid
Appearance: Color:	Thick liquid Brown to Black
Property	Values
pH	8-14
Melting point / freezing point	Not tested
Boiling point / boiling range	> 100 °C @ 760 mm Hg
Flash point	None
Evaporation rate	(Bac=1) 2%
Flammability (solid, gas)	Tested NON-FLAMBLE
Flammability Limit in Air	Tested NON-FLAMBLE
Upper flammability limit:	Not tested
Lower flammability limit:	Not tested
Vapor pressure (Air=1)	Same as H2O (water)
Vapor density	Same as H2O (water)
Relative density	>1
Water solubility	Yes
Solubility in other solvents	Not tested
Odor	Asphalt Odor

10. STABILITY AND REACTIVITY

Reactivity

Low

Chemical stability

Stable under recommended conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and Extreme weather.

Incompatible materials

None known

Hazardous Decomposition Products

None known

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation:	May cause irritation.
Eye contact:	severely irritating to eyes.
Skin contact:	Irritating to skin.
Ingestion:	Substance may be harmful if swallowed. Irritating to mouth, throat & stomach

Information on toxicological effects

Symptoms: No Information available.

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

Carcinogenicity No Information available.
Chemical Name

ACGIH
IARC NTP
OSHA

Petroleum Asphalt
8052-42-4
2B

- Group
- X

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Eco toxicity

None of the mixture consists of components of unknown hazards to the aquatic environment

Persistence and degradability Information not available.

Bioaccumulation Information not available.

Other adverse effects Information not available

Ozone N/A

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes:	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging:	Does not occur.

14. TRANSPORT INFORMATION

Product label:	GoldCoat Seal HP#310
UN number:	Not hazardous
DOT shipping name:	Not regulated
DOT hazard class:	Not hazardous

15. REGULATORY INFORMATION

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

SARA 311/312 Hazard Categories

Acute health hazard Yes

Chronic Health Hazard No

Fire hazard No

Sudden release of pressure hazard No

Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

16. ADDITIONAL INFORMATION**NFPA:**

Health hazards 1

Flammability 0

Instability 0

Physical and Chemical Properties -

HMIS:

Health hazards 1

Flammability 1

Physical hazards 0

Personal protection X

Disclaimer: This information is furnished without warranty, expressed or implied except that it is accurate to the best knowledge of GSA the data on this sheet are related only to the specific material designated herein. GSA assumes no legal responsibility for use or reliance upon these data. Product is sold as is where NO WARRANTY.



GoldFlex Sealant

Direct Fire Hot Rubber Crack Sealant #615

GoldFlex Crack Sealant #615

GoldFlex Asphalt Crack and Joint Sealant is a premium hot melt, polymer-modified, asphalt crack sealant designed for use on asphalt, concrete, streets and parking lots. GoldFlex #615 Cracker sealant is a blend of SBS polymer modified asphalt, fillers and additives designed as a hot applied, premium pavement joint and crack sealant. Application to prepared joints or cracks is by hot application from a heated melter then squeegeed into place. Only 100% new polymer is used, with no recycled polymer, rubber or reclaimed rubber, giving superior performance over a variety of temperatures and climates. It is packaged in easy-to-use 35 lb. "bricks" that are wrapped with meltable poly in an individual cardboard carton and palletized.



Application

For best application, use an oil jacketed melter and dispense the material between 340° - 350°F. Never exceed 380°F, as product performance will be degraded. Cimline and Step Equipment melters are commonly used by contractors. Goldflex will also work with direct fire melters if proper care is taken to limit flame intensity. A gentle flame works best when using this equipment - avoid over-heating material. Only apply to cracks, normally 1/4" and wider, and apply with either a pressure feed wand system or gravity pour pots. Use a "V" or "U" shaped squeegee to strike off material and avoid excess "bands" on the surface.

Pallet Pricing Available!



1354 Jet Way,
Perris CA 92571

www.GoldStarAsphalt.com
Info@GoldStarAsphalt.com
T +1 888 770 7325





GoldFlex Sealant

Direct Fire Hot Rubber Crack Sealant #615

GoldFlex Sealant #615

DESCRIPTION: Cracker Filler is a blend of SBS polymer modified asphalt, fillers and additives designed as a hot applied, premium pavement joint and crack sealant. Application to prepared joints or cracks is by hot application from a heated melter then squeegeed into place. Only 100% new polymer is used, with no recycled polymer, rubber or reclaimed rubber, giving superior performance over a variety of temperatures and climates. It is packaged in easy-to-use 35 lb. "bricks" that are wrapped with meltable poly in an individual cardboard carton and palletized.

FEATURES & BENEFITS:

Sealing cracks and joints in both asphaltic and concrete roadways, parking lots, airport runways and taxiways.

SURFACE PREPARATION:

Surface must be dry and free from all loose material, dirt and dust. Any weeds or plant matter should be removed and the area sprayed with herbicide. Routing is optional. Routing is recommended for reducing the occurrence of "bumps" and is optional otherwise. Please refer to application instructions.

APPLICATION:

For best application, use an oil jacketed melter and dispense the material between 340° - 350°F. Never exceed 380°F, as product performance will be degraded. Cimline and Stepp Equipment melters are commonly used by contractors. Goldflex will also work with direct fire melters if proper care is taken to limit flame intensity. A gentle flame works best when using this equipment - avoid over-heating material. Only apply to cracks, normally 1/4" and wider, and apply with either a pressure feed wand system or gravity pour pots. Use a "V" or "U" shaped squeegee to strike off material and avoid excess "bands" on the surface. Sanding is optional if tracking concerns exist.

WEATHER LIMITATIONS:

Application should be postponed if wet or freezing weather is expected 24 hours following application. When ambient temperature exceeds 90F, pavement should be misted with a water based fog system prior to application.

COVERAGE:

One 35 lb. carton equals 3.75 gallons (866 cubic inches) of joint volume.

COLOR:

Color upon drying black dark gray

CLEAN UP:

Clean hands and cold equipment with citrus based hand cleaner. Mineral spirits or other asphalt cleaners can be used on equipment with precautions.

STORAGE:

Keep from freezing. Do not store in direct sunlight or where temperatures exceed 100F.

PACKAGING:

35 lb Box

1354 Jet Way,
Perris CA 92571

www.GoldStarAsphalt.com
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T + 1 888 770 7325





SAFETY DATA SHEET

Issue Date 4-Dec-2019

Revision Date 1-Jan-2020

Version 1

1. IDENTIFICATION

Product identifier

Product Name GoldFlex #615 Cracker Filler

Other means of identification

Product Code GoldFlex #615

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Adhesives and/or sealants

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Goldstar Asphalt products 1354 Jet way Perris

Ca, 92571 Contact: Jeff Nelson

Telephone Number: 888-770-7325

Website: GoldstarAsphalt.com

Emergency telephone number

Company Phone Number GSA Office: 951-940-1610

Emergency Telephone CHEMTREC: 800-424-9300

2. HAZARDS IDENTIFICATION

Classification

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
Specific target organ toxicity (single exposure)	Category 3

Label elements

Emergency Overview

Warning

Hazard statements

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation



Appearance Solid**Physical state** Solid**Odor** Sulfurous**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

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 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
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

CONTACT WITH HOT PRODUCT WILL CAUSE THERMAL BURNS.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No	Weight-%
Asphalt *	8052-42-4	40 - 70
Limestone *	1317-65-3	15 - 40
Polymer Blend *	Proprietary	5 - 10

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

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

4. FIRST AID MEASURES

Description of first aid measures**General advice**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.

Eye contact

Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.

Skin contact

Removal of solidified molten material from skin requires medical assistance. In case of burns, immediately cool affected skin for as long as possible with cold water. For severe burns, immediate medical attention is required.

Inhalation

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.

Ingestion

Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Rinse mouth. Never give anything by mouth to an unconscious person.

Self-protection of the first aider

Remove all sources of ignition. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed**Symptoms**

May cause redness and tearing of the eyes. Coughing and/ or wheezing. May cause skin irritation. Drowsiness. Dizziness.

Indication of any immediate medical attention and special treatment needed**Note to physicians**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

CO₂, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

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**

Wear protective gloves/protective clothing and eye/face protection. Ensure adequate ventilation, especially in confined areas.

Environmental precautions**Environmental precautions**

Do not allow into any sewer, on the ground or into any body of water.

Methods and material for containment and cleaning up**Methods for containment**

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling**Advice on safe handling**

Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. Avoid breathing fumes from hot material.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep away from heat.

Incompatible materials Strong oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Asphalt 8052-42-4	TWA: 0.5 mg/m ³ benzene soluble aerosol fume, inhalable fraction	-	Ceiling: 5 mg/m ³ fume 15 min
Limestone 1317-65-3	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust

NIOSH IDLH *Immediately Dangerous to Life or Health*

Appropriate engineering controls

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).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid	Odor	Sulfurous
Appearance	Solid	Odor threshold	No information available
Color	black		
Property	Values	Remarks • Method	
pH	No information available		
Melting point / freezing point	No information available		
Boiling point / boiling range	No information available		
Flash point	291 °C / 556 °F	Cleveland Open Cup	
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		
Vapor pressure	No information available		
Vapor density	No information available		
Relative density	0.9-1.2		
Water solubility	Insoluble in water		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition temperature	>290 °C / >550 °F		
Decomposition temperature	No information available		

Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	Not an explosive
Oxidizing properties	Not applicable

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY**Reactivity**

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Incompatible materials. To avoid thermal decomposition, do not overheat.

Incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO₂). Hydrogen sulfide.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

Inhalation	May cause irritation of respiratory tract.
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin. Contact with product at elevated temperatures can result in thermal burns.
Ingestion	Based on available data, the classification criteria are not met.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Asphalt 8052-42-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms May cause redness and tearing of the eyes. Coughing and/ or wheezing. May cause skin irritation.

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

Sensitization Based on available data, the classification criteria are not met.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity An analysis of cancer studies in humans suggests an association between lung cancer and exposure to hard bitumens during roofing and mastic asphalt work. The majority of animal studies of oxidized asphalt have been negative in dermal cancer studies, however a two-year study in mice exposed to fume condensates of severely oxidized asphalt caused a

weak, but statistically significant increase in skin tumors. The International Agency for Research on Cancer (IARC) published a preliminary finding in late 2011 indicating that occupational exposures to asphalts and their emissions during roofing and mastic asphalt work present a potential cancer risk to humans. Product containing mineral oil with less than 3% DMSO extract as measured by IP 346. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Asphalt 8052-42-4	-	Group 2B	-	X
Polymer Blend	-	Group 3	-	-

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT - single exposure

Respiratory system.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Target Organ Effects

Eyes, Respiratory system, Skin.

Aspiration hazard

Based on available data, the classification criteria are not met.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

Oral LD50 9225 mg/kg

Dermal LD50 4498 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

None known

Persistence and degradability

No information available.

Bioaccumulation

Chemical Name	Partition coefficient
Asphalt 8052-42-4	6

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

Not regulated

<u>TDG</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDL	Complies
EINECS/ELINCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

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

DSL/NDL - 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

SARA 311/312 Hazard Categories

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

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Quartz - 14808-60-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Asphalt 8052-42-4	X	X	X
Limestone	X	X	X

1317-65-3			
Quartz 14808-60-7	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards 2	Flammability 1	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 2	Flammability 1	Physical hazards 0	Personal protection X

Issue Date 4-Dec-2019

Revision Date 1-Jan-2020

Revision Note

No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet