

1. Identification

Product identifier	Action Pave RT Sealer, Action Pave RT Pro Sealer, Action Pave RT Aviator Sealer, Action Pave RT Supreme Sealer	
Other means of identification		
Synonyms	Pavement Sealer, Pavement Sealcoat	
Recommended use	Sealcoating for pavements	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Manufacturer:	Crafco, Inc.	
Address:	6165 West Detroit St. Chandler, AZ 85226 USA	
Contact Name:	Crafco Materials Engineering	
Telephone:	602-276-0406	
E-mail:	sales@crafco.com	
CHEMTREC:	800-424-9300 (North America) + 1-703-527-3887 (International)	

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Sensitization, skin	Category 1
	Germ cell mutagenicity	Category 1
	Carcinogenicity	Category 1
	Reproductive toxicity	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word Danger

Hazard statement May cause cancer. May cause an allergic skin reaction. May cause genetic defects. May damage fertility or the unborn child.

Precautionary statement

Prevention

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. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Specific treatment see Section 4 of this SDS.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
PITCH, COAL TAR, HIGH-TEMP.		65996-93-2	30 - 50
PYRENE		129-00-0	1 - 10
QUARTZ		14808-60-7	1 - 10
ANTHRACENE		120-12-7	< 1
BENZ[A]ANTHRACENE		56-55-3	< 1
BENZO[A]PYRENE		50-32-8	< 1
BENZO[B]FLUORANTHENE		205-99-2	< 1
CHRYSENE		218-01-9	< 1
NAPHTHALENE		91-20-3	< 1
Other components below reportable levels			53.4014

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Prolonged exposure may cause chronic effects. Direct contact with eyes may cause temporary irritation. May cause skin irritation. May cause allergic skin reaction.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original tightly closed container.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
NAPHTHALENE (CAS 91-20-3)	PEL	50 mg/m ³ 10 ppm	
PITCH, COAL TAR, HIGH-TEMP. (CAS 65996-93-2)	PEL	0.2 mg/m ³	
PYRENE (CAS 129-00-0)	PEL	0.2 mg/m ³	
QUARTZ (CAS 14808-60-7)	PEL	0.05 mg/m ³	Respirable dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
QUARTZ (CAS 14808-60-7)	TWA	0.1 mg/m ³ 2.4 mppcf	Respirable. Respirable.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
NAPHTHALENE (CAS 91-20-3)	TWA	10 ppm	
PITCH, COAL TAR, HIGH-TEMP. (CAS 65996-93-2)	TWA	0.2 mg/m ³	Aerosol.
PYRENE (CAS 129-00-0)	TWA	0.2 mg/m ³	Aerosol.
QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m ³	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
NAPHTHALENE (CAS 91-20-3)	STEL	75 mg/m ³ 15 ppm	
	TWA	50 mg/m ³ 10 ppm	
PITCH, COAL TAR, HIGH-TEMP. (CAS 65996-93-2)	TWA	0.1 mg/m ³	Cyclohexane-extractable fraction.
PYRENE (CAS 129-00-0)	TWA	0.1 mg/m ³	Cyclohexane-extractable fraction.
QUARTZ (CAS 14808-60-7)	TWA	0.05 mg/m ³	Respirable dust.

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
ANTHRACENE (CAS 120-12-7)	2.5 µg/l	1-Hydroxypyrene, with hydrolysis (1-HP)	Urine	*

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
BENZ[A]ANTHRACENE (CAS 56-55-3)	2.5 µg/l	1-Hydroxypyrene, with hydrolysis (1-HP)	Urine	*
BENZO[A]PYRENE (CAS 50-32-8)	2.5 µg/l	1-Hydroxypyrene, with hydrolysis (1-HP)	Urine	*
BENZO[B]FLUORANTHENE (CAS 205-99-2)	2.5 µg/l	1-Hydroxypyrene, with hydrolysis (1-HP)	Urine	*
CHRYSENE (CAS 218-01-9)	2.5 µg/l	1-Hydroxypyrene, with hydrolysis (1-HP)	Urine	*
PYRENE (CAS 129-00-0)	2.5 µg/l	1-Hydroxypyrene, with hydrolysis (1-HP)	Urine	*

* - For sampling details, please see the source document.

Exposure guidelines**US - California OELs: Skin designation**

NAPHTHALENE (CAS 91-20-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

NAPHTHALENE (CAS 91-20-3) Danger of cutaneous absorption

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles). Use personal protective equipment as required.

Skin protection**Hand protection**

Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

Other

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties**Appearance**

Brown Liquid

Physical state

Liquid.

Form

Liquid.

Color

Brown

Odor

Petroleum

Odor threshold

Not available.

pH

7 - 9

Melting point/freezing point

32 °F (0 °C)

Initial boiling point and boiling range

212 °F (100 °C)

Flash point

> 212.0 °F (> 100.0 °C) Cleveland Open Cup

Evaporation rate

Not available.

Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.2 - 1.8
Solubility(ies)	
Solubility (water)	Dilutable with water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	400 °F (204.44 °C) estimated
Decomposition temperature	Not available.
Viscosity	1000 - 5000 cP

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause an allergic skin reaction.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Exposure may cause temporary irritation, redness, or discomfort. May cause an allergic skin reaction. Mild skin irritation.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Product	Species	Test Results
Action Pave RT Sealer, Action Pave RT Pro Sealer, Action Pave RT Aviator Sealer, Action Pave RT Supreme Sealer		

Acute

Dermal

LD50	Rat	4e+006 mg/kg
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Inhalation

LC50	Rat	24000 mg/l, 4 Hours
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Oral

LD50	Rat	993600 mg/kg
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Components

ANTHRACENE (CAS 120-12-7)

Acute

Dermal

LD50	Rat	> 1320 mg/kg
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Components	Species	Test Results
Oral LD50	Rat	> 160000 mg/kg
BENZO[A]PYRENE (CAS 50-32-8)		
Acute Dermal LD50	Rat	> 2000 mg/kg
Oral LD50	Rat	725 mg/kg
NAPHTHALENE (CAS 91-20-3)		
Acute Dermal LD50	Rabbit	> 2 g/kg
Oral LD50	Rat	490 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Not available.

Respiratory or skin sensitization

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

Skin sensitization May cause allergic skin disorders in sensitive individuals.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

ANTHRACENE (CAS 120-12-7)	3 Not classifiable as to carcinogenicity to humans.
BENZ[A]ANTHRACENE (CAS 56-55-3)	2B Possibly carcinogenic to humans.
BENZO[A]PYRENE (CAS 50-32-8)	1 Carcinogenic to humans.
BENZO[B]FLUORANTHENE (CAS 205-99-2)	2B Possibly carcinogenic to humans.
CHRYSENE (CAS 218-01-9)	2B Possibly carcinogenic to humans.
NAPHTHALENE (CAS 91-20-3)	2B Possibly carcinogenic to humans.
PITCH, COAL TAR, HIGH-TEMP. (CAS 65996-93-2)	1 Carcinogenic to humans.
PYRENE (CAS 129-00-0)	3 Not classifiable as to carcinogenicity to humans.
QUARTZ (CAS 14808-60-7)	1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

QUARTZ (CAS 14808-60-7)	Cancer
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US. National Toxicology Program (NTP) Report on Carcinogens

ANTHRACENE (CAS 120-12-7)	Known To Be Human Carcinogen.
BENZ[A]ANTHRACENE (CAS 56-55-3)	Known To Be Human Carcinogen.
BENZO[A]PYRENE (CAS 50-32-8)	Reasonably Anticipated to be a Human Carcinogen.
BENZO[B]FLUORANTHENE (CAS 205-99-2)	Known To Be Human Carcinogen.
CHRYSENE (CAS 218-01-9)	Reasonably Anticipated to be a Human Carcinogen.
NAPHTHALENE (CAS 91-20-3)	Known To Be Human Carcinogen.
PITCH, COAL TAR, HIGH-TEMP. (CAS 65996-93-2)	Known To Be Human Carcinogen.
QUARTZ (CAS 14808-60-7)	Known To Be Human Carcinogen.

Reproductive toxicity May damage fertility or the unborn child.

Specific target organ toxicity - single exposure Not available.

Specific target organ toxicity - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not classified.

12. Ecological information

Ecotoxicity Expected to be very toxic to aquatic organisms. May cause long-term adverse effects in the environment.

Product	Species	Test Results
Action Pave RT Sealer, Action Pave RT Pro Sealer, Action Pave RT Aviator Sealer, Action Pave RT Supreme Sealer		

Aquatic

Acute

Crustacea	EC50	Daphnia	12.8607, 48 hours estimated
Fish	LC50	Fish	0.3586, 96 hours estimated

Components

Species

Test Results

ANTHRACENE (CAS 120-12-7)

Aquatic

Acute

Crustacea	EC50	Water flea (Daphnia magna)	>= 0.081 - <= 0.112 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	>= 0.0021 - <= 0.0048 mg/l, 96 hours

NAPHTHALENE (CAS 91-20-3)

Aquatic

Acute

Crustacea	EC50	Water flea (Daphnia magna)	>= 1.09 - <= 3.4 mg/l, 48 hours
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	>= 0.95 - <= 1.62 mg/l, 96 hours

PYRENE (CAS 129-00-0)

Aquatic

Acute

Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 2 mg/l, 96 hours
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Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

ANTHRACENE	4.45
BENZ[A]ANTHRACENE	5.76
BENZO[A]PYRENE	6.13
BENZO[B]FLUORANTHENE	5.78
CHRYSENE	5.73
NAPHTHALENE	3.3
PYRENE	4.88

Mobility in soil Not expected to be mobile in soil.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

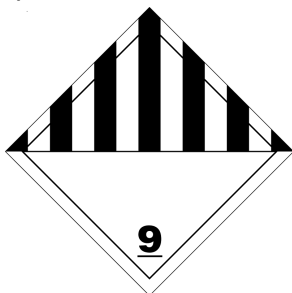
UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (NAPHTHALENE, BENZO[A]PYRENE)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	Yes
ERG Code	9L
Special precautions for user	Not available.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

IMDG

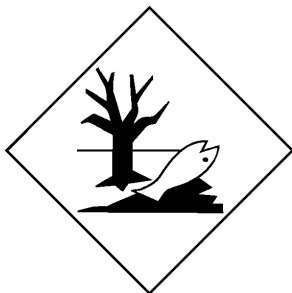
UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT (NAPHTHALENE)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Not available.
NAPHTHALENE	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

IATA; IMDG



Marine pollutant



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

Toxic Substances Control Act (TSCA)**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ANTHRACENE (CAS 120-12-7)	Listed.
BENZ[A]ANTHRACENE (CAS 56-55-3)	Listed.
BENZO[A]PYRENE (CAS 50-32-8)	Listed.
BENZO[B]FLUORANTHENE (CAS 205-99-2)	Listed.
CHRYSENE (CAS 218-01-9)	Listed.
NAPHTHALENE (CAS 91-20-3)	Listed.
PYRENE (CAS 129-00-0)	Listed.

SARA 304 Emergency release notification

Pyrene (CAS 129-00-0) 5000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

QUARTZ (CAS 14808-60-7)	Cancer lung effects immune system effects kidney effects
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Superfund Amendments and Reauthorization Act of 1986 (SARA)**SARA 302 Extremely hazardous substance**

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
PYRENE	129-00-0	5000		1000	10000

SARA 311/312 Hazardous chemical Yes

Classified hazard categories	Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity
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SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
BENZ[A]ANTHRACENE	56-55-3	< 1
BENZO[A]PYRENE	50-32-8	< 1
BENZO[B]FLUORANTHENE	205-99-2	< 1
NAPHTHALENE	91-20-3	< 1

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

ANTHRACENE (CAS 120-12-7)
BENZ[A]ANTHRACENE (CAS 56-55-3)
BENZO[A]PYRENE (CAS 50-32-8)
BENZO[B]FLUORANTHENE (CAS 205-99-2)
CHRYSENE (CAS 218-01-9)
NAPHTHALENE (CAS 91-20-3)
PYRENE (CAS 129-00-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.**US state regulations****US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

ANTHRACENE (CAS 120-12-7)
BENZ[A]ANTHRACENE (CAS 56-55-3)
BENZO[A]PYRENE (CAS 50-32-8)
BENZO[B]FLUORANTHENE (CAS 205-99-2)
CHRYSENE (CAS 218-01-9)
NAPHTHALENE (CAS 91-20-3)

PITCH, COAL TAR, HIGH-TEMP. (CAS 65996-93-2)
PYRENE (CAS 129-00-0)
QUARTZ (CAS 14808-60-7)

California Proposition 65



WARNING: WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

BENZ[A]ANTHRACENE (CAS 56-55-3)	Listed: July 1, 1987
BENZO[A]PYRENE (CAS 50-32-8)	Listed: July 1, 1987
BENZO[B]FLUORANTHENE (CAS 205-99-2)	Listed: July 1, 1987
CHRYSENE (CAS 218-01-9)	Listed: January 1, 1990
NAPHTHALENE (CAS 91-20-3)	Listed: April 19, 2002
QUARTZ (CAS 14808-60-7)	Listed: October 1, 1988

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 03-26-2019

Revision date 05-19-2023

Version # 05

NFPA ratings
Health: 2
Flammability: 1
Instability: 0

Disclaimer
The information provided in this 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.

Revision information This document has undergone significant changes and should be reviewed in its entirety.