

Safety data sheet

ELASTOCOAT S-5000 DARK GRAY

Revision date : 2008/10/08
Version: 1.0

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(30456023/MDS_GEN_US/EN)

1. Substance/preparation and company identification

Company

BASF Polyurethane Foam Enterprises LLC
13630 Watertower Circle
Minneapolis, MN 55441

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

Synonyms: Silicone Coating Low VOC

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
98-56-6	>= 5.0 - <= 10.0 %	Benzene, 1-chloro-4-(trifluoromethyl)-
64742-95-6	>= 5.0 - <= 10.0 %	solvent naphtha
14808-60-7	>= 10.0 - <= 30.0 %	crystalline silica
95-63-6	>= 1.0 - <= 5.0 %	1,2,4-trimethylbenzene
7727-43-7	>= 7.0 - <= 13.0 %	Sulfuric acid, barium salt (1:1)
13463-67-7	>= 1.0 - <= 5.0 %	titanium dioxide
22984-54-9	>= 1.0 - <= 5.0 %	2-Butanone, O,O',O''-(methylsilyldiyl)trioxime
71-43-2	>= 0.001 - <= 0.01 %	Benzene

3. Hazard identification

Emergency overview

CAUTION: COMBUSTIBLE LIQUID. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
HARMFUL IF INHALED.
REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.
This product can contain a small amount of free respirable Crystalline (quartz) Silica which has been listed as a human carcinogen by NTP (Group 1) and IARC (Reasonably Anticipated to be a Human Carcinogen) and a Suspected Human Carcinogen by ACGIH (category A2).
CONTAINS MATERIAL WHICH CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE.
CONTAINS MATERIAL WHICH CAN CAUSE KIDNEY DAMAGE.
CONTAINS MATERIAL WHICH CAN CAUSE LIVER DAMAGE.
HARMFUL IF SWALLOWED.
Prolonged or repeated contact may result in dermatitis.
Contains a suspect carcinogen.
COMBUSTIBLE LIQUID AND VAPOR.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

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Acute toxicity:

Ingestion may cause gastrointestinal disturbances.

Information on: Parachlorobenzotrifluoride

Inhalation of Parachlorobenzotrifluoride may produce symptoms of CNS depression including headache, dizziness, nausea, loss of balance and drowsiness. Ingestion may cause damage to the lining of the G.I. tract.

Information on: Petroleum Distillates

Acute overexposure to petroleum distillate vapors may cause CNS effects, including headache, dizziness and confusion. Ingestion causes nausea, vomiting, blurred vision, and CNS disorders. Aspiration of the liquid into the lungs may result in chemical pneumonitis, which may be fatal.

Information on: 1,2,4-Trimethylbenzene

Inhalation of 1,2,4-trimethylbenzene may result in CNS effects including CNS depression, nausea, anxiety and headache. Aspiration of the liquid into the lungs may result in pulmonary edema and chemical pneumonitis. Asthmatic bronchitis may be aggravated by 1,2,4-trimethylbenzene exposure.

Irritation:

Irritating to respiratory system. Irritating to eyes and skin.

Information on: 1,2,4-Trimethylbenzene

Irritates eyes, skin and mucous membranes. 1,2,4-trimethylbenzene is irritating to the eyes, skin and mucous membranes.

Repeated dose toxicity:

Information on: Parachlorobenzotrifluoride

Studies conducted on laboratory animals indicate that exposures to parachlorobenzotrifluoride via inhalation and ingestion may result in liver and kidney damage.

Information on: Petroleum Distillates

Prolonged or repeated skin contact with petroleum distillates may cause defatting and dermatitis.

Information on: Quartz

Quartz (CAS No. 14808-60-7) is listed as a suspected human carcinogen (ACGIH) and an anticipated carcinogen (NTP).

Information on: Silica crystalline (Tox Statements NAFTA)

Overexposure to crystalline silica results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses. The International Agency for Research on Cancer (IARC) has classified crystalline silica in Group 1 (those agents with evidence of carcinogenicity to humans) and National Toxicology Program (NTP) has included it in its Annual Report on Carcinogens.

Information on: 1,2,4-Trimethylbenzene

In a subchronic toxicity study, male rats were gavaged with either 0.5 or 2.0 g/kg 1,2,4-trimethylbenzene once daily, for 5 days/week for four weeks. Mortality occurred in 1 rat from the low dose group; all rats died in the high dose group during the study.

Information on: Titanium dioxide

In a National Cancer Institute (NCI) feeding study, titanium dioxide was not carcinogenic to rats or mice at maximum tolerated doses. In another study, TiO₂ caused fibrosis and lung cancer in rats exposed to 250 mg/m³ by inhalation. However, no effects were seen at lower airborne concentrations.

Medical conditions aggravated by overexposure:

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.

4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

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If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

5. Fire-fighting measures

Flash point: 102 °F
Autoignition: 932 °F

Suitable extinguishing media:

water, dry extinguishing media, carbon dioxide, foam

Hazards during fire-fighting:

No particular hazards known.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

6. Accidental release measures

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and storage

Handling

Protection against fire and explosion:

No explosion proofing necessary.

Storage

General advice:

No special precautions necessary. Avoid extreme heat. Store protected against freezing.

Storage stability:

Storage temperature: 70 - 80 °F
Protect against moisture.

8. Exposure controls and personal protection

Components with workplace control parameters

crystalline silica	OSHA	TWA value 2.4 millions of particles per cubic foot of air Respirable ; TWA value 0.1 mg/m3 Respirable ; TWA value 0.3 mg/m3 Total dust ;
1,2,4-trimethylbenzene	ACGIH	TWA value 0.025 mg/m3 Respirable fraction ;

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Sulfuric acid, barium salt (1:1)	ACGIH	TWA value 25 ppm ;
	OSHA	PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;
titanium dioxide	ACGIH	TWA value 10 mg/m3 ;
	OSHA	PEL 15 mg/m3 Total dust ;
Benzene	ACGIH	TWA value 10 mg/m3 ;
	OSHA	TWA value 1 ppm ; STEL value 5 ppm ; OSHA Action level 0.5 ppm ; TWA value 10 ppm ; CLV 25 ppm ; max. conc. 50 ppm ;
	ACGIH	TWA value 0.5 ppm ; STEL value 2.5 ppm ; Skin Designation ;

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

General safety and hygiene measures:

Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapours/mists. Wash soiled clothing immediately.

9. Physical and chemical properties

Form:	liquid
Colour:	dark grey
Boiling range:	250.0 - 335.0 °C
Vapour pressure:	5.3 hPa
Density:	11.68 - 11.88 (25 °C)
	lb/USg
Viscosity, dynamic:	110 - 125 mPa.s

10. Stability and reactivity

Conditions to avoid:

> 80 degrees Fahrenheit
Avoid moisture.

Hazardous reactions:

The product is chemically stable.

Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide

Thermal decomposition:

No data available.

Corrosion to metals:

No corrosive effect on metal.

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11. Toxicological information

12. Ecological information

Environmental fate and transport

Biodegradation:

Evaluation: Biodegradable.
The product has not been tested. The statement has been derived from products of a similar structure and composition.

13. Disposal considerations

Waste disposal of substance:

Incinerate in a licensed facility.
Dispose of in a licensed facility.
Do not discharge substance/product into sewer system.

Container disposal:

Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Refer to 40 CFR § 261.7 (residues of hazardous waste in empty containers).
Decontaminate containers prior to disposal. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport information

Reference Bill of Lading

15. Regulatory information

Federal Regulations

Registration status:

TSCA, US released / listed

OSHA hazard category: IARC 1, 2A or 2B carcinogen, NTP listed carcinogen, Chronic target organ effects reported, OSHA PEL established, ACGIH TLV established, Combustible Liquid

CERCLA RQ

1000 LBS
10 LBS

CAS Number

7727-43-7
71-43-2

Chemical name

Sulfuric acid, barium salt (1:1)
Benzene

SARA hazard categories (EPCRA 311/312): Acute, Chronic, Fire

SARA 313:

CAS Number

95-63-6

Chemical name

1,2,4-trimethylbenzene

State regulations

State RTK

CAS Number

98-56-6

Chemical name

Benzene, 1-chloro-4-(trifluoromethyl)-

State RTK

NJ

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95-63-6	1,2,4-trimethylbenzene	MA, NJ, PA
7727-43-7	Sulfuric acid, barium salt (1:1)	MA, NJ, PA
13463-67-7	titanium dioxide	MA, NJ, PA
71-43-2	Benzene	MA, NJ, PA

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

16. Other information

HMIS III rating

Health: 2 Flammability: 2 Physical hazard: 1

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

Local contact information

1-800-888-3342

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