

SAFETY DATA SHEET



1. Identification

Covestro LLC
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Pittsburgh, PA 15205
USA

TRANSPORTATION EMERGENCY

CALL CHEMTREC: (800) 424-9300
INTERNATIONAL: (703) 527-3887

NON-TRANSPORTATION

Emergency Phone: Call Chemtrec
Information Phone: (844) 646-0545

Product Name: BAYTEC 33919 BLACK URETHANE ELASTOMER
Material Number: 59140527
Chemical Family: Polyol System
Use: Polyol components for the production of polyurethanes

2. Hazards Identification

GHS Classification

Eye irritation: Category 2A
Carcinogenicity (Inhalation): Category 2

GHS Label Elements

Hazard pictograms:



Signal word: Warning

Hazard statements: Causes serious eye irritation.
Suspected of causing cancer if inhaled.

Precautionary statements: **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash skin and face thoroughly after handling.
Wear permeation resistant protective gloves and clothing. Wear eye and face protection.
Response:
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical attention.

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If eye irritation persists: Get medical attention.

Storage:

Store locked up.

Disposal:

Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

3. Composition/Information on Ingredients

Hazardous Components

Concentration	Components	CAS-No.
1 - 5%	2,2'-Phenyliminodiethanol	120-07-0
1 - 5%	Aluminum Silicate	1318-02-1
0.1 - 1%	Carbon Black	1333-86-4

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

4. First Aid Measures

Most Important Symptom(s)/Effect(s)

Acute: Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning.

Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

Skin Contact

In case of skin contact, wash affected areas with soap and water. Get medical attention if irritation develops.

Inhalation

If inhaled, remove to fresh air. Get medical attention if irritation develops.

Ingestion

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

5. Firefighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO₂), Dry chemical, Foam, water spray for large fires.

Unsuitable Extinguishing Media: High volume water jet

Fire Fighting Procedure

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

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Hazardous Decomposition Products

By Fire: ; Carbon Dioxide; Carbon Monoxide Other hazardous decomposition products may be formed.

6. Accidental Release Measures

Spill and Leak Procedures

Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal. Use appropriate personal protective equipment during clean up. Evacuate and keep unnecessary people out of spill area.

7. Handling and Storage

Handling/Storage Precautions

Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep container closed when not in use. Material is hygroscopic and may absorb small amounts of atmospheric moisture. If contamination with isocyanates is suspected, do not reseal containers. Avoid breathing dust, vapor, or mist. Avoid contact with eyes. Avoid contact with skin or clothing.

Storage Period:

6 Months

Storage Temperature

Maximum: 45 °C (113 °F)

Substances to Avoid

Oxidizing agents, Isocyanates

8. Exposure Controls/Personal Protection

The recommendations in this section should not be a substitute for a personal protective equipment (PPE) assessment performed by the employer as required by 29 CFR 1910 Subpart I.

Exposure Limits

Aluminum Silicate (1318-02-1)

US. ACGIH Threshold Limit Values
Time weighted average 1 mg/m³ (Respirable fraction.)

US. ACGIH Threshold Limit Values
Hazard Designation: Group A4 Not classifiable as a human carcinogen.

Carbon Black (1333-86-4)

US. ACGIH Threshold Limit Values
Time weighted average 3 mg/m³ (Inhalable fraction.)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Permissible exposure limit 3.5 mg/m³

US. ACGIH Threshold Limit Values
Hazard Designation: Group A3 Confirmed animal carcinogen with unknown relevance

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to humans.

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

Industrial Hygiene/Ventilation Measures

Use local and general exhaust ventilation to control levels of exposure. Thermal processing operations should be ventilated to control gases and fumes given off during processing.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators., In case of insufficient ventilation, wear suitable respiratory equipment., NIOSH approved, air-purifying respirator with organic vapor cartridges and P-95 filters., At higher concentrations or under uncertain conditions a respirator with independent air supply must be used.

Hand Protection

Ensure gloves remain in good condition during use and replace if any deterioration is observed.

Permeation resistant gloves., butyl-rubber, Nitrile rubber, Neoprene gloves

Eye Protection

Chemical safety goggles or safety glasses with side-shields.

Skin Protection

Wear as appropriate:, Permeation resistant clothing

Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product.

9. Physical and Chemical Properties

State of Matter:	liquid
Appearance:	viscous
Color:	Black
Odor:	mild
Odor Threshold:	No Data Available
pH:	No Data Available
Freezing Point:	No Data Available
Setting Point:	No Data Available
Melting Point:	No Data Available
Boiling Point:	No Data Available
Flash Point:	> 93.33 °C (200 °F)
Evaporation Rate:	Negligible
Lower explosion limit:	No Data Available
Upper Explosion Limit:	No Data Available
Vapor Pressure:	< 0.04 mmHg @ 20 °C (68 °F)
Vapor Density:	No Data Available
Density:	No Data Available
Relative Vapor Density:	No Data Available
Specific Gravity:	> 1
Solubility in Water:	slightly soluble

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Partition Coefficient: n-octanol/water: No Data Available
Auto-ignition Temperature: No Data Available
Decomposition Temperature: No Data Available
Dynamic Viscosity: No Data Available
Kinematic Viscosity: No Data Available

10. Stability and Reactivity

Hazardous Reactions

Hazardous polymerisation does not occur.

Stability

Stable

Materials to Avoid

Oxidizing agents, Isocyanates

Hazardous Decomposition Products

By Fire: Carbon Dioxide; Carbon Monoxide; Other hazardous decomposition products may be formed.

11. Toxicological Information

Likely Routes of Exposure: Skin Contact
Eye Contact

Health Effects and Symptoms

Acute: Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning.

Chronic: Suspected of causing cancer.

Toxicity Data for: BAYTEC 33919 BLACK URETHANE ELASTOMER

No data available for this product.

Toxicity Data for: 2,2'-Phenyliminodiethanol

Acute Oral Toxicity

LD50: 980 mg/kg (rat)

Acute Dermal Toxicity

LD50: > 23,300 mg/kg (rabbit)

Skin Irritation

Draize Test, Mild skin irritation

Eye Irritation

rabbit, Draize, Severely irritating

Toxicity Data for: Aluminum Silicate

Acute Oral Toxicity

LD50: 5,000 mg/kg (rat)

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Acute Inhalation Toxicity

LC50: > 5.3 mg/l, 4 h, dust/mist (rat)
Toxicological studies of a comparable product.

Acute Dermal Toxicity

LD50: > 2,000 mg/kg (rabbit)

Skin Irritation

human skin, Non-irritating

Eye Irritation

Mild eye irritation
Based on a similar product.

Sensitization

Buehler Test: non-sensitizer (Guinea pig)

non-sensitizer (Human, Patch Test)
Toxicological studies of a comparable product.

Repeated Dose Toxicity

11 w (5 hr/d on 5 days/w), inhalation: NOAEL: Not Established, LOAEL: <= 2 mg/l, (rat, male)

Mutagenicity

Genetic Toxicity in Vitro:
Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

Carcinogenicity

rat, Male/Female, oral, 2y No carcinogenic effects observed at the doses tested.
Toxicological studies of a comparable product.

Developmental Toxicity/Teratogenicity

rat, female, oral, GD 6-15, NOAEL (teratogenicity): > 1,600 mg/kg, NOAEL (maternal): > 1,600 mg/kg,
No fetotoxicity observed at doses tested.
Studies of a comparable product.

Toxicity Data for: Carbon Black**Acute Oral Toxicity**

LD50: > 8,000 mg/kg (rat, male/female) (OECD Test Guideline 401)

Acute Dermal Toxicity

LD50: > 3,000 mg/kg (rabbit)

Skin Irritation

rabbit, Non-irritating

Eye Irritation

Human, non-irritant

Sensitization

Buehler Test: negative (Guinea pig, OECD Test Guideline 406)

Skin sensitization (local lymph node assay (LLNA)):: negative (Mouse, OECD Test Guideline 429)

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Repeated Dose Toxicity

13 weeks, Inhalative: NOAEL: 0.0011 mg/kg, (rat,)

Mutagenicity

Genetic Toxicity in Vitro:

Salmonella/microsome test (Ames test): negative

Mammalian cell - gene mutation assay: positive (other mammalian cell line, Metabolic Activation: without)

Micronucleus test: positive (other human cell line, Metabolic Activation: without)

Genetic Toxicity in Vivo:

Other assay: negative (Mouse, male, intraperitoneal)
negative

Carcinogenicity

Several inhalation studies involving carbon black in female rats have shown increases in benign and malignant lung tumors. Although a large body of data on possible mechanisms of carcinogenicity in rats was considered by the IARC Working Group, it was not possible to state with confidence that the mechanisms of carcinogenicity in rats correlate to exposure in humans. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions.

Developmental Toxicity/Teratogenicity

rat, female, Inhalative, 10 days, daily,

Other Relevant Toxicity Information

May cause irritation of respiratory tract.

Carcinogenicity:

Carbon Black

IARC - Overall evaluation: 2B Possibly carcinogenic to humans.

12. Ecological Information**Ecological Data for: BAYTEC 33919 BLACK URETHANE ELASTOMER**

No data available for this product.

Ecological Data for 2,2'-Phenyliminodiethanol**Additional Ecotoxicological Remarks**

No data available for this component.

Ecological Data for Aluminum Silicate**Biodegradation**

not applicable

Acute and Prolonged Toxicity to Fish

LC50: 1,800 mg/l (Zebra fish (Brachydanio rerio), 96 h)

Acute Toxicity to Aquatic Invertebrates

EC50: 1,000 - 1,800 mg/l (Water flea (Daphnia magna), 48 h)

Toxicity to Microorganisms

EC50: 3,200 - 5,600 mg/l, (Pseudomonas fluorescens, 8 h)

Ecological Data for Carbon Black

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Acute and Prolonged Toxicity to Fish
LC0: > 1,000 mg/l (Danio rerio (zebra fish), 96 h)

Acute Toxicity to Aquatic Invertebrates
EC50: > 5,600 mg/l (Water flea (Daphnia magna), 24 h)

Toxicity to Microorganisms
EC0: 100 - 800 mg/l, (Activated sludge microorganisms, 3 h)

13. Disposal Considerations

Waste Disposal Method
Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Empty Container Precautions
Recondition or dispose of empty container in accordance with governmental regulations.

14. Transportation Information

Land transport (DOT)
Non-Regulated

Sea transport (IMDG)
Non-Regulated

Air transport (ICAO/IATA)
Non-Regulated

15. Regulatory Information

United States Federal Regulations
US. Toxic Substances Control Act: Listed on the Active Portion of the TSCA Inventory.

No substances are subject to TSCA 12(b) export notification requirements.

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components:
None

SARA Section 311/312 Hazard Categories:
Refer to hazard classification information in Section 2.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:
None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:
None

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):

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Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
>=1%	Polyether Polyol	CAS# is a trade secret
7 - 13%	1,4-Butanediol	110-63-4
>=1%	Polyether Polyol	9041-33-2
1 - 5%	2,2'-Phenyliminodiethanol	120-07-0
1 - 5%	Aluminum Silicate	1318-02-1

Massachusetts Right to Know Extraordinarily Hazardous Substance List:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<0.1%	Aniline	62-53-3
10 - 15 ppm	Ethylene Oxide	75-21-8
15 - 20 ppm	Acetaldehyde	75-07-0
15 - 20 ppm	1,4-Dioxane	123-91-1

California Proposition 65 List:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
0.1 - 1%	Carbon Black	1333-86-4
<0.1%	Aniline	62-53-3
10 - 15 ppm	Ethylene Oxide	75-21-8
15 - 20 ppm	Acetaldehyde	75-07-0
15 - 20 ppm	1,4-Dioxane	123-91-1

CFATS (Chemical Facility Anti-Terrorism Standards) Chemicals

To the best of our knowledge, this product does not contain Appendix A Chemicals of Interest (COI), at or above the Screening Threshold Quantity (STQ), as defined by the Department of Homeland Security Chemical Facility Anti-terrorism Standard (CFATS, 6 CFR Part 27).

Based on information provided by our suppliers, this product is considered "DRC Conflict Free" as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-10; Date: 2012-08-22).

16. Other Information

The method of hazard communication for Covestro LLC is comprised of product labels and safety data sheets. Safety data sheets for all of our products and general product declarations are available for download at www.productsafetyfirst.covestro.com.

Contact: Product Safety Department
Telephone: (412) 413-2835
SDS Number: 112000042724
Version Date: 12/18/2018
SDS Version: 2.5

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|| Changes since the last version are highlighted in the margin. This version replaces all previous versions.