

Distributed By:



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SAFETY DATA SHEET



1. Identification

Covestro LLC
1 Covestro Circle
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: PERGUT S 20
Material Number: 00959111
Chemical Family: Chlorinated Rubber
Use: Raw material for coatings, adhesives, sealants, or elastomers in industrial applications
Restrictions on use: Pesticides

2. Hazards Identification

GHS Classification

Combustible dust:

GHS Label Elements

Signal word: Warning

Hazard statements: May form combustible dust concentrations in air.

3. Composition/Information on Ingredients

Hazardous Components

There are no hazardous components above the relevant concentration limits according to OSHA HazCom 2012.

OTHER INGREDIENTS

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5%	Toluene	108-88-3

The potentially hazardous ingredient(s) listed above are used to formulate this product. As supplied, the

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ingredient(s) are bound in the polymer matrix. Because they are bound in the matrix, they are not expected to create any unusual hazards when handled and processed according to good manufacturing and industrial hygiene practices and the guidelines provided in this SDS.

4. First Aid Measures

Most Important Symptom(s)/Effect(s)

Acute: May cause mechanical irritation of the respiratory tract, skin, and/or eyes. Eyes may become red, feel scratchy and may tear., Gases and fumes evolved during the thermal processing or decomposition of this material may irritate the eyes, skin or respiratory tract., Contact with heated material can cause thermal burns.

Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. 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. Remove contaminated clothing and shoes. Wash clothing before reuse.

Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Ingestion

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

5. Firefighting Measures

Suitable Extinguishing Media: Water, Foam, Dry chemical

Unsuitable Extinguishing Media: Carbon dioxide (CO₂)

Fire Fighting Procedure

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

Hazardous Decomposition Products

By Fire and Thermal Decomposition: ; Hydrochloric Acid; Carbon Tetrachloride Carbon oxides

Unusual Fire/Explosion Hazards

Dust may form explosive mixtures with air. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Corrosive gases/fumes may be given off during burning or thermal decomposition.

6. Accidental Release Measures

Spill and Leak Procedures

Cleanup personnel must use appropriate personal protective equipment. Remove all sources of ignition, including flames, heat, and sparks. Use explosion-proof equipment. Use grounded or non-sparking tools and equipment. Remove mechanically by a method that minimizes the generation of airborne dust (vacuum

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cleaner, wet mopping, etc.) Ensure vacuum cleaners are approved for explosible dusts. Do not use compressed air for cleaning. Collect and place in appropriately marked sealable containers for disposal. If molten, allow material to cool and place into an appropriate marked container for disposal.

7. Handling and Storage

Handling/Storage Precautions

This product may form explosible dust/air mixtures. Avoid creating dust. Remove all sources of ignition, including flames, heat, and sparks. Ground and bond containers and equipment before transferring to avoid static sparks. Use non-sparking tools and equipment. Avoid breathing dust. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. This product contains a maximum of 0.005% (50 ppm) carbon tetrachloride. Vapors of solvent and carbon tetrachloride may be released by heating or placing this material in solution and can accumulate during storage in the drum head space.

Storage Period:

9 Months: after receipt of material by customer

Storage Temperature

Maximum: 49 °C (120.2 °F)

Storage Conditions

Store in a cool dry place. Store in original or similar containers. Minimize dust generation and accumulation. Protect equipment (e.g. storage bins, conveyors, dust collectors) with explosion vents. Avoid extreme heat.

Substances to Avoid

Aluminum, Iron, Zinc, Tin oxides, Oxidizing agents

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

Toluene (108-88-3)

US. OSHA Table Z-2 (29 CFR 1910.1000)
Time weighted average 200 ppm

US. OSHA Table Z-2 (29 CFR 1910.1000)
Ceiling Limit Value 300 ppm

US. OSHA Table Z-2 (29 CFR 1910.1000)
Maximum concentration: 500 ppm (10 minutes)

US. ACGIH Threshold Limit Values
Time weighted average 20 ppm

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

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

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines.

Respiratory Protection

NIOSH approved, air-purifying particulate respirator with N-95 filters., During high-temperature processing and/or circumstances where decomposition is suspected, a NIOSH-approved supplied air respirator is recommended to protect against fumes and vapors.

Hand Protection

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

Permeation resistant gloves., Wear heat resistant gloves when handling molten material.

Eye Protection

Chemical resistant goggles must be worn.

Skin Protection

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. Emergency showers and eye wash stations should be available.

9. Physical and Chemical Properties

State of Matter:	solid
Appearance:	powder
Color:	White
Odor:	almost odourless
Odor Threshold:	No Data Available
pH:	8 - 9
Melting Point:	200 - 250 °C (392 - 482 °F) (DIN 53736)
Boiling Point:	No Data Available
Flash Point:	No Data Available
Evaporation Rate:	No Data Available
Flammability:	No Data Available
Lower Explosion Limit:	1.2 %(V) for the solvent
Upper Explosion Limit:	7.8 %(V) for the solvent
Vapor Pressure:	No Data Available
Vapor Density:	No Data Available
Density:	ca. 1.5 g/cm ³ (DIN 53479)
Relative Vapor Density:	No Data Available
Specific Gravity:	No Data Available
Solubility in Water:	insoluble @ 15 °C (59 °F)
Partition Coefficient: n-octanol/water:	No Data Available
Auto-ignition Temperature:	No Data Available
Decomposition Temperature:	>= 255 °C (491 °F) Decomposition begins at 255 °C.

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Dynamic Viscosity: not applicable
Kinematic Viscosity: No Data Available
Bulk Density: ca. 0.4 kg/m³ (DIN ISO 697)
Self Ignition: The substance or mixture is not classified as self heating.

10. Stability and Reactivity

Hazardous Reactions

Hazardous polymerisation does not occur.

Stability

Vigorous reactions of the chlorinated polymer with certain metal and metal oxides (e.g. Al, Fe, Zn or SnO) can occur releasing HCl and/or carbon tetrachloride.

Materials to Avoid

Aluminum, Iron, Zinc, Tin oxides, Oxidizing agents

Conditions to Avoid

Heat, flames and sparks.

Hazardous Decomposition Products

By Fire and Thermal Decomposition: Hydrochloric Acid; Carbon Tetrachloride; Carbon oxides

11. Toxicological Information

Likely Routes of Exposure: Inhalation
Skin Contact
Eye Contact
Ingestion

Health Effects and Symptoms

Acute: May cause mechanical irritation of the respiratory tract, skin, and/or eyes. Eyes may become red, feel scratchy and may tear., Gases and fumes evolved during the thermal processing or decomposition of this material may irritate the eyes, skin or respiratory tract., Contact with heated material can cause thermal burns.

Chronic: Breathing vapors or dust can irritate the lungs. Repeated exposures may cause bronchitis to develop with cough, phlegm and shortness of breath.

Toxicity Data for: PERGUT S 20

Acute Oral Toxicity

LD50: > 2,000 mg/kg (rat) (Directive 67/548/EEC, Annex V, B.1.)
Studies of a comparable product.

Skin Irritation

rabbit, OECD Test Guideline 404, non-irritant
Toxicological studies of a comparable product.

Eye Irritation

rabbit, OECD Test Guideline 405, slight irritant
Toxicological studies of a comparable product.

Carcinogenicity:

No carcinogenic substances as defined by IARC, NTP and/or OSHA

12. Ecological Information

The components in this product are either not classified, below the relevant concentration limits, or do not have any ecotoxicity data.

Biodegradation

< 60 %, i.e. not readily degradable

Ecotoxicological reports on a comparable product

Acute and Prolonged Toxicity to Fish

LC50: > 100 mg/l (Danio rerio (zebra fish), 96 h)

Ecotoxicological reports on a comparable product

Toxicity to Microorganisms

EC50: > 10,000 mg/l, (activated sludge)

Ecotoxicological reports on a comparable product

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. Empty containers retain product residue (dust, liquid, vapor and/or gases) and can be dangerous. Label precautions also apply to this container when empty.

14. Transportation Information**Land transport (DOT)**

Proper Shipping Name: Other regulated substances, solid, n.o.s. (contains Toluene)

Hazard Class or Division: 9

UN/NA Number: NA3077

Packaging Group: III

Hazard Label(s): CLASS 9

RSPA/DOT Regulated Components:

Toluene

Reportable Quantity: 9071 kg (1998 lb)

Sea transport (IMDG)

Non-Regulated

Air transport (ICAO/IATA)

Non-Regulated

Additional Transportation Information

When in individual containers of less than the Product RQ, this material ships as non-regulated.

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15. Regulatory Information

United States Federal Regulations

US. Toxic Substances Control Act: Listed on the TSCA Inventory.

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

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components:

Toluene Reportable quantity: 1000 lbs

SARA Section 311/312 Hazard Categories:

Fire Hazard

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:

Toluene

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

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>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
>=1%	1,3-Butadiene, 2-methyl-, homopolymer, chlorinated	68441-58-7
1 - 5%	Toluene	108-88-3

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5%	Toluene	108-88-3

Massachusetts Right to Know Extraordinarily Hazardous Substance List:

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
45 - 50 ppm	Carbon Tetrachloride	56-23-5

California Prop. 65:

Warning! This product contains chemical(s) known to the State of California to be Carcinogenic. Developmental toxin.

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5%	Toluene	108-88-3
45 - 50 ppm	Carbon Tetrachloride	56-23-5

CFATS (Chemical Facility Anti-Terrorism Standards) Chemicals

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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.

This product, or any part of the product, is not approved for and should not be used in the formulation of a pesticide or pesticide product, as those terms are defined in 40 CFR 152.3.

Contact:	Product Safety Department
Telephone:	(412) 413-2835
SDS Number:	112000014811
Version Date:	05/31/2017
SDS Version:	3.4

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