

SAFETY DATA SHEET



1. Identification

Covestro LLC
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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: DeSolite 950-200
Material Number: 50024537
Chemical Family: Acrylate Resin
Use: Raw material for coatings, inks, adhesives, sealants, or elastomers in industrial applications
Restrictions on use: Do-It-Yourself Applications

2. Hazards Identification

GHS Classification

Skin sensitisation: Category 1
Carcinogenicity: Category 2
Reproductive toxicity: Category 2
Specific target organ toxicity - repeated exposure: Category 2

GHS Label Elements

Hazard pictograms:



Signal word: Warning

Hazard statements: May cause an allergic skin reaction.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements: **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust, mist, gas, vapors or spray.

Material Name: DeSolite 950-200

Material Number: 50024537

Contaminated work clothing must not be allowed out of the workplace.

Wear permeation resistant protective gloves and clothing. Wear eye and face protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.

IF exposed or concerned: Get medical attention.

If skin irritation or rash occurs: Get medical attention.

Wash contaminated clothing before reuse.

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.
15 - 40%	2-phenoxyethyl acrylate	48145-04-6
5 - 10%	1,1,1-trimethylol propane triacrylate	15625-89-5
1 - 5%	Ethanone, 2,2-dimethoxy-1,2-diphenyl-	24650-42-8
1 - 5%	2-Phenoxyethanol	122-99-6

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: May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash.

Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Get medical attention if irritation develops.

Skin Contact

In case of skin contact, wash affected areas with soap and water. Wash off immediately with plenty of water for at least 15 minutes. Immediately remove contaminated clothing and shoes. Call a physician if irritation develops or persists. Wash clothing and shoes 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. If a person vomits when lying on his back, place him in the recovery position. Get medical attention.

5. Firefighting Measures

Suitable Extinguishing Media: All extinguishing media are suitable.

Unsuitable Extinguishing Media No Data Available

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.

Hazardous Decomposition Products

By Fire and Thermal Decomposition: Carbon dioxide (CO₂), carbon monoxide (CO), dense black smoke., Acrylate monomers, Aldehydes, Organic acids

Unusual Fire/Explosion Hazards

Toxic and irritating 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. Dike or dam spilled material and control further spillage, if possible. Prevent from entering open drains and waterways. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal.

7. Handling and Storage

Handling/Storage Precautions

Avoid breathing dust, vapor, or mist. 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.

Storage Temperature

Minimum: 15 °C (59 °F)

Maximum: 30 °C (86 °F)

Storage Conditions

Inhibitor only effective in the presence of oxygen. Exposure to light may cause product polymerization. Extreme heat will result in product polymerization. Protect against heat and direct sunlight.

Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Substances to Avoid

Exothermic reaction with:, Free radical initiators, Peroxides, strong alkalis, Strong acids, Reactive metals

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

Country specific exposure limits have not been established or are not applicable

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

Respiratory protection is recommended in insufficiently ventilated working areas and during heating or spraying. For components with occupational exposure limits, when workers are facing concentrations above those limits, they must use appropriate certified respirators.

Hand Protection

Ensure gloves remain in good condition during use and replace if any deterioration is observed. Permeation resistant gloves., Nitrile rubber gloves., Avoid natural rubber gloves., Do not wear PVC gloves, as PVC absorbs acrylates.

Eye Protection

Chemical safety goggles or safety glasses with side-shields.

Skin Protection

Permeation resistant clothing, Gloves, long sleeved shirts and pants.

Additional Protective Measures

Ultraviolet (UV) light source is used for curing this product. UV light can be hazardous to unprotected skin and eyes. Protective eyewear should always be worn when working in UV curing areas. Skin protection such as long sleeves, long pants, and gloves should be worn when UV lights are being used. 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:	liquid
Appearance:	liquid
Color:	Amber
Odor:	characteristic
Odor Threshold:	No Data Available
pH:	No Data Available
Melting Point:	
Boiling Point:	
Flash Point:	> 93 °C (> 199.4 °F) (closed cup)
Evaporation Rate:	No Data Available
Lower explosion limit:	No Data Available
Upper Explosion Limit:	No Data Available
Vapor Pressure:	No Data Available
Vapor Density:	No Data Available
Density:	1.05 g/cm ³ @ 20 °C (68 °F)
Relative Vapor Density:	No Data Available
Specific Gravity:	No Data Available

Material Name: DeSolute 950-200

Material Number: 50024537

Solubility in Water:	No Data Available
Partition Coefficient: n-octanol/water:	No Data Available
Auto-ignition Temperature:	No Data Available
Decomposition Temperature:	Stable under recommended storage conditions. The product is chemically stable.
Unblocking Temperature:	No Data Available
Dynamic Viscosity:	2,200 - 2,800 mPa.s @ 20 °C (68 °F)
Kinematic Viscosity:	> 2095 mm ² /s @ 20 °C (68 °F)
Bulk Density:	No Data Available
Molecular Weight:	No Data Available
Self Ignition:	not applicable

10. Stability and Reactivity

Hazardous Reactions

No hazardous reactions when stored and handled correctly.

Stability

Stable

Materials to Avoid

Exothermic reaction with:, Free radical initiators, Peroxides, strong alkalis, Strong acids, Reactive metals

Conditions to Avoid

Exposure to sunlight. Product contains an inhibitor system. Must be inhibited to prevent hazardous polymerization. Inhibitor only effective in the presence of oxygen. Heat, flames and sparks.

Hazardous Decomposition Products

By Fire and Thermal Decomposition: Carbon dioxide (CO₂), carbon monoxide (CO), dense black smoke., Acrylate monomers, Aldehydes, Organic acids

11. Toxicological Information

Likely Routes of Exposure:

Skin Contact
Eye Contact
Ingestion
Inhalation

Health Effects and Symptoms

Acute: May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash.

Chronic: May damage fertility or the unborn child., Suspected of causing cancer., May cause damage to organs through prolonged or repeated exposure.

Toxicity Data for: DeSolite 950-200

Data on the product is not available.

Acute Oral Toxicity

Acute toxicity estimate: > 2,000 mg/kg (Calculation method)

Acute Inhalation Toxicity

no data available

Acute Dermal Toxicity

no data available

Toxicity Data for: 2-phenoxyethyl acrylate**Acute Oral Toxicity**

LD50: > 5,000 mg/kg (rat)

LD50: > 5,000 mg/kg (rat, female)

Acute Inhalation Toxicity

no data available

Acute Dermal Toxicity

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

Skin Irritation

rabbit, non-irritant

Eye Irritation

rabbit, Non-irritating

Sensitization

Maximisation Test: sensitizer (Guinea pig)

Repeated Dose Toxicity

90 d, oral: NOAEL: 350 mg/kg, (rat)

Mutagenicity

Genetic Toxicity in Vitro:

gene mutation test: negative (Bacteria)

gene mutation test: negative (mammalian cell)

Chromosome aberration test: negative (Human lymphocytes)

Toxicity to Reproduction/Fertility

Oral, (rat) NOAEL (parental): 100 mg/kg,

Developmental Toxicity/Teratogenicity

rat, oral, NOAEL (maternal): 600 mg/kg,

Toxicity Data for: 1,1,1-trimethylol propane triacrylate**Acute Oral Toxicity**

LD50: > 5,000 mg/kg (rat)

Acute Dermal Toxicity

LD50: 5,170 mg/kg (rabbit)

assuming density = 1.1 g/cm³

Skin Irritation

rabbit, OECD Test Guideline 404, irritating

Eye Irritation

Material Name: DeSolute 950-200

Material Number: 50024537

rabbit, Draize, irritating

Sensitization

Skin sensitisation:: positive (Guinea pig)

Skin sensitisation:: positive (Guinea pig)

Repeated Dose Toxicity

16 days, dermal: NOAEL: > 200 mg/kg, (rat, male/female, 5 days/week)

Mutagenicity

Genetic Toxicity in Vitro:

Mammalian cell - gene mutation assay: positive (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without)

Chromosome aberration test: positive (other mammalian peripheral blood lymphocytes, Metabolic Activation: with/without)

Ames test: ambiguous (Salmonella typhimurium, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:

Micronucleus Assay: negative (Mouse, male/female)
negative

Micronucleus Assay: negative (Mouse, male/female)
negative

Developmental Toxicity/Teratogenicity

rat, female, Oral, 10 days, daily, NOAEL (teratogenicity): > 500 mg/kg, NOAEL (maternal): 500 mg/kg,

Toxicity Data for: Ethanone, 2,2-dimethoxy-1,2-diphenyl-

Acute Oral Toxicity

LD50: 1,470 mg/kg (rat, male/female)

Acute Dermal Toxicity

LD50: > 5,000 mg/kg (rat, male/female)

Toxicity Data for: 2-Phenoxyethanol

Acute Oral Toxicity

LD50: 1,850 mg/kg (rat, male/female) (OECD Test Guideline 401)

Acute Dermal Toxicity

LD50: 14,391 mg/kg (rabbit, male/female)

Skin Irritation

rabbit, OECD Test Guideline 404, Non-irritating

Eye Irritation

rabbit, OECD Test Guideline 405, irritating

Sensitization

Skin sensitisation according to Magnusson/Kligmann (maximizing test):: negative (Guinea pig)

Repeated Dose Toxicity

13 weeks, Oral: (rat, male/female)

13 weeks, dermal: NOAEL: 500 mg/kg, (rabbit, male/female, 6 hrs/day 5 days/week)

Mutagenicity

Genetic Toxicity in Vitro:

Chromosome aberration test: negative (Chinese hamster lung cells, Metabolic Activation: with/without)

Mammalian cell - gene mutation assay: negative (Chinese hamster lung cells, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:

Micronucleus Assay: negative (rat, male, intraperitoneal)

negative

Toxicity to Reproduction/Fertility

Two-generation study, (feeding study) oral, (Mouse, male/female) NOAEL (parental): 1,875 mg/kg,

NOAEL (F1): 375 mg/kg, NOAEL (F2): 375 mg/kg,

Developmental Toxicity/Teratogenicity

rat, female, Oral, GD 6-19, daily, NOAEL (teratogenicity): 1,000 mg/kg, NOAEL (maternal): 300 mg/kg,

Carcinogenicity:

1,1,1-trimethylol propane
triacrylate

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

12. Ecological Information

Ecological Data for: DeSolite 950-200

Data on the product is not available.

Ecological Data for 2-phenoxyethyl acrylate

Acute and Prolonged Toxicity to Fish

LC50: 10 mg/l (Fish, 96 h)

Acute Toxicity to Aquatic Invertebrates

EC50: 1.21 mg/l (Daphnia magna (Water flea), 48 h)

Toxicity to Aquatic Plants

EC50: 4.44 mg/l, (algae, 72 h)

Ecological Data for 1,1,1-trimethylol propane triacrylate

Biodegradation

90 - 100 %, i.e. readily biodegradable

Toxicity to Aquatic Plants

EC50: 18.8 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)

Ecological Data for Ethanone, 2,2-dimethoxy-1,2-diphenyl-

Acute and Prolonged Toxicity to Fish

LC50: 29.67 mg/l (Fish, 96 h)

Acute Toxicity to Aquatic Invertebrates

LC50: 18.387 mg/l (Daphnia (water flea), 48 h)

Toxicity to Aquatic Plants

Material Name: DeSolite 950-200

Material Number: 50024537

EC50: 19.666 mg/l, (algae, 96 h)

Ecological Data for 2-Phenoxyethanol

Biodegradation

90 %, i.e. readily biodegradable

Bioaccumulation

< 5 BCF

Acute and Prolonged Toxicity to Fish

LC50: 344 mg/l (Fathead minnow (*Pimephales promelas*), 96 h)

LC0: 200 mg/l (Golden orfe (*Leuciscus idus*), 48 h)

Toxicity to Microorganisms

EC0: 1,000 mg/l, (*Pseudomonas putida*)

EC0: 1,000 mg/l, (*Pseudomonas fluorescens*)

13. Disposal Considerations

Waste Disposal Method

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

Empty Container Precautions

Empty containers retain product residue (dust, liquid, vapor and/or gases) and can be dangerous. Do not reuse empty container.

14. Transportation Information

Land transport (DOT)

Non-Regulated

Sea transport (IMDG)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-Phenoxyethyl acrylate, Trimethylolpropane triacrylate)
Hazard Class or Division:	9
UN number:	UN3082
Packaging Group:	III
Hazard Label(s):	MISCELLANEOUS
Marine pollutant:	Marine pollutant

Air transport (ICAO/IATA)

Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (contains 2-Phenoxyethyl acrylate, Trimethylolpropane triacrylate)
Hazard Class or Division:	9
UN number:	UN3082
Packaging Group:	III
Hazard Label(s):	MISCELLANEOUS
Marine pollutant:	Marine pollutant

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 302.4) Components:

2-phenoxyethyl acrylate	Included in the regulation but with no data values. See regulation for further details
2-Phenoxyethanol	Included in the regulation but with no data values. See regulation for further details

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:

2-Phenoxyethanol

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>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
>=1%	Oligomer	CAS# is a trade secret
15 - 40%	2-phenoxyethyl acrylate	48145-04-6
5 - 10%	1,1,1-trimethylol propane triacrylate	15625-89-5
1 - 5%	Ethanone, 2,2-dimethoxy-1,2-diphenyl-	24650-42-8
1 - 5%	2-Phenoxyethanol	122-99-6

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

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5%	2-Phenoxyethanol	122-99-6

California Proposition 65 List:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
5 - 10%	1,1,1-trimethylol propane triacrylate	15625-89-5

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

Contact: Product Safety Department
Telephone: (412) 413-2835
Version Date: 12/13/2022
SDS Version: 1.4

Information contained in this Safety Data Sheet (SDS) is believed to be accurate but is furnished without warranty, express or implied, including warranties of merchantability or fitness for a particular purpose. The information relates only to the specific material designated herein. Covestro LLC assumes no legal responsibility for use of or reliance upon the information in this SDS and such information shall in no case be considered a part of our terms and conditions of sale. The user is responsible for determining whether the Covestro product is suitable for user's method of use or application. Covestro is not liable for any failure to observe the precautionary measures described in this SDS or for any misuse of the product.