SAFETY DATA SHEET



1. Identification

Covestro LLC 1 Covestro Circle Pittsburgh, PA 15205 USA

TRANSPORTATION EMERGENCY CALL CHEMTREC:

(800) 424-9300 (703) 527-3887

NON-TRANSPORTATION Emergency Phone: Information Phone:

INTERNATIONAL:

Call Chemtrec (844) 646-0545

Product Name: Material Number: Chemical Family: Use: IMPRANIL DLN W 50 57821292 Aliphatic Polyurethane Resin Aqueous Dispersion Raw material for coatings, inks, adhesives, sealants, or elastomers in industrial applications

2. Hazards Identification

This product is not classified as hazardous according to OSHA HazCom 2012 (29 CFR 1910.1200).

3. Composition/Information on Ingredients

Hazardous Components

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

4. First Aid Measures

Most Important Symptom(s)/Effect(s)

Acute: Not expected to cause adverse acute health effects.

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. Thoroughly clean shoes before reuse. Wash clothing before reuse.

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Inhalation

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

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 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), oxides of nitrogen (NOx), dense black smoke.

6. Accidental Release Measures	
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Spill and Leak Procedures

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. Ventilate area to remove vapors or dust.

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. Protect from freezing.

Storage Temperature	
Minimum:	5 °C (41 °F)
Maximum:	30 °C (86 °F)

Storage Conditions Store separate from food products.

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 Water reactives

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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

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. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent the build up of explosive atmospheres and to prevent off gases from entering the work place.

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., Butyl rubber gloves., Nitrile rubber gloves.

Eye Protection

Chemical safety goggles in combination with a full face shield if a splash hazard exists.

Skin Protection

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

Additional Protective Measures

0 Physical and Chamical Properties

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.

State of Matter:	liquid	
Color:	White	
Odor:	odourless	
Odor Threshold:	No Data Available	
pH:	Approximately 6.5	
Freezing Point:	Approximately 0 °C (32 °F) similar to water	
Boiling Point:	ca. 100 °C (212 °F) @ 1,013 hPa	
Flash Point:	Not applicable (water based product), however, solid material will support combustion if water has been evaporated.	
Evaporation Rate:	No Data Available	
Lower Explosion Limit:	2.5 %(V) for the solvent	
Upper Explosion Limit:	14.3 $\%(V)$ for the solvent	
Vapor Pressure:	No Data Available	
Vapor Density:	No Data Available	
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Density:	1.1 g/cm ³ @ 20 °C (68 °F) ca. 1.1 g/cm ³ @ 23 °C (73.4 °F) (DIN 53217)
Relative Vapor Density:	No Data Available
Specific Gravity:	No Data Available
Solubility in Water:	miscible
Partition Coefficient: n-	No Data Available
octanol/water:	
Auto-ignition Temperature:	No Data Available
Decomposition Temperature:	No Data Available
Unblocking Temperature:	No Data Available
Dynamic Viscosity:	< 70 mPa.s @ 23 °C (73.4 °F) (DIN ISO 2431)
Kinematic Viscosity:	No Data Available
Bulk Density:	No Data Available
Molecular Weight:	No Data Available

10. Stability and Reactivity

Hazardous Reactions

Hazardous polymerisation does not occur.

Stability Stable

Materials to Avoid Water reactives

Conditions to Avoid Protect from freezing.

Hazardous Decomposition Products

By Fire and Thermal Decomposition: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

11. Toxicological Information

Likely Routes of Exposure:

Skin Contact Eye Contact

Health Effects and Symptoms

Acute: Not expected to cause adverse acute health effects. Chronic: Not expected to cause adverse chronic health effects.

Toxicity Data for: IMPRANIL DLN W 50

Data on the product is not available.

Please find the data available for the components.

Toxicity Data for: Polyester Polyurethane

Acute Oral Toxicity

LD50: > 2,000 mg/kg (rat, male/female) (OECD Test Guideline 423)

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Studies of a comparable product.

Acute Inhalation Toxicity

LC50: > 2.676 mg/l, 4 h, dust/mist (rat, male/female) (OECD Test Guideline 403) Toxicological studies of a comparable product.

Acute Dermal Toxicity

Acute toxicity estimate: > 2,000 mg/kg Studies of a comparable product.

Skin Irritation

rabbit, OECD Test Guideline 404, slight irritant Studies of a comparable product.

Eye Irritation

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

Sensitization

Sensitization of the skin: negative (Guinea pig, OECD Test Guideline 406) Studies of a comparable product.

Skin sensitization (local lymph node assay (LLNA)):: negative (Mouse, OECD Test Guideline 429) Studies of a comparable product.

Repeated Dose Toxicity

Oral: NOAEL: 1,000 mg/kg, (rat) Studies of a comparable product.

Mutagenicity

Genetic Toxicity in Vitro: Ames test: negative (Salmonella typhimurium, Metabolic Activation: with/without) Studies of a comparable product. Ames test: negative (Escherichia coli, Metabolic Activation: with/without) Studies of a comparable product. In vitro mammalian cell gene mutation test: negative (Chinese hamster V79 cell line, Metabolic Activation: with/without) Studies of a comparable product.

Genetic Toxicity in Vivo:

No data available.

Carcinogenicity

No data available. **Toxicity to Reproduction/Fertility** No data available. **Developmental Toxicity/Teratogenicity** No data available.

<u>Carcinogenicity</u>: No carcinogenic substances as defined by IARC, NTP and/or OSHA

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12. Ecological Information

Biodegradation

63 %, Exposure time: 28 d, i.e. not readily biodegradable (10 day time window criterion is not met) Studies at the product.

Ecological Data for Polyester Polyurethane

Biodegradation

Closed Bottle test, 19 %, Exposure time: 28 d, i.e. not readily degradable Studies of a comparable product.

17 %, Exposure time: 28 d, i.e. not inherently degradable Studies of a comparable product.

Bioaccumulation

Cyprinus carpio (Carp), An accumulation in aquatic organisms is not to be expected. Studies of a comparable product.

Acute and Prolonged Toxicity to Fish

LC50: > 100 mg/l (Brachydanio rerio (zebrafish), 96 h) Studies of a comparable product.

Acute Toxicity to Aquatic Invertebrates

EC50: > 100 mg/l (Daphnia magna (Water flea), 48 h) Studies of a comparable product.

Toxicity to Aquatic Plants

No data available.

Toxicity to Microorganisms

EC50: > 100 mg/l, (activated sludge, 96 h) Studies of 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.

14. Transportation Information

Land transport (DOT) Non-Regulated

<u>Sea transport (IMDG)</u> Non-Regulated

<u>Air transport (ICAO/IATA)</u> Non-Regulated

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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: 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 IIISection 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:Concentration<1 ppm</td>Hexachlorobenzene118-74-1

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:

Concentration	<u>Components</u>	CAS-No.
>=1%	Water	7732-18-5
>=1%	Polyester Polyurethane	CAS# is a trade secret

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

Concentration	Components	CAS-No.
0.1 - 1%	Acetone	67-64-1

California Proposition 65 List:ConcentrationComponents<1 ppm</td>Hexachlorobenzene118-74-1

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).

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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.

Product Safety Department
(412) 413-2835
01/15/2024
2.12

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.

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

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