



D-Prime Part B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: N/A

Date of Issue: 09/22/2025

Version1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Paste

Product Name: D-Prime

Product Code: DD-Pr2-B01

Intended Use of the Product

Epoxy Primer

Name, Address, and Telephone of the Responsible Party

Manufacturer

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633
www.garlandco.com

Supplier

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633
www.garlandco.com

The Garland Company, Inc.
209 Carrier Drive
Toronto, Ontario M9W 5Y8
T-416-747-7995 ; 800-387-5991
F-416-747-1980

Emergency Telephone Number

Emergency Number: 1-800-262-8200 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Flam. Liq. 4 H227
Acute Tox. Oral 4 H302
Acute Tox. Dermal 3 H311
Skin Irrit. 1 H314
Skin Sens. 1 H317
Eye Irrit. 1 H318
Acute Aqua. 3 H402
Chronic Aqua. Tox. 3 H412

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H227-Combustible liquid
H302-Harmful if swallowed
H311-Toxic in contact with skin
H314-Causes severe skin burns and eye damage
H317-May cause an allergic skin reaction
H318-Causes serious eye damage
H402-harmful to aquatic life
H412-Harmful to aquatic life with long lasting effects

D-Prime Part B

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 09/22/2025

Precautionary Statements (GHS-US) :

- P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
- P260 - Do not breathe mist.
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 - Wash face, hands and any exposed skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P273 - Avoid release to the environment.
- P280 - Wear eye protection, face protection, protective clothing, protective gloves
- P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P302+352 - IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 - Immediately call a POISON CENTER or doctor/physician. P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
- P321 - Specific treatment (see supplemental instructions on the administration of antidotes on this label).
- P322 - Specific measures (see supplemental first aid instructions on this SDS).
- P330 - Rinse mouth.
- P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P361 - Remove/Take off immediately all contaminated clothing.
- P363 - Wash contaminated clothing before reuse.
- P370+P378 - In case of fire: Use appropriate media for extinction
- P403 + P235 - Store in a well-ventilated place. Keep cool.
- P405 - Store locked up
- P501 - Dispose of contents/container according to local, regional, national, and international regulations

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component

Hazardous Components	CAS No.	Classification (GHS-US)
N-amino Ethyl Piperazine	140-31-8	Flamm. Liq. 4, H227 Oral Tox. 4, H302 Acute Tox Der. 3, H311 Skin Corr. 1, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Acute Aqua. Tox. 3, H402 Chronic Aqua. Tox. 3, H412
Nonylphenol	251-4-52-3	
Aliphatic Ether Polyamines	9046-10-0	Skin Corr. 1, H314 Eye Dam. 1, H318 Acute Aqua. Tox. 3, H402 Chronic Aqua. Tox. 3, H412

*Indicates toxic chemicals subject to the reporting requirements of section 313 of Title III and of 40 CFR 372. Information concerning non-hazardous ingredients is considered a trade secret.

D-Prime Part B

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 09/22/2025

Primary Route of Exposure: Skin x Inhalation x Eye x Ingestion x

Health Effect Information

Eye Contact: May cause eye irritation if wiped or rubbed into eyes. Can injure eye tissue, which may result in permanent damage.

Skin Contact: May cause skin irritation if wiped or left on the skin. Repeated or prolonged contact with skin may cause sensitization.

Inhalation: May cause irritation of respiratory tract which may result in sinusitis, bronchitis, or asthma.

Breathing vapors may cause central nervous system depression.

Ingestion: Moderately toxic. Ingestion may cause symptoms similar to those of inhalation.

Chronic Hazards: No known components of this product are listed as known or suspected carcinogens per NIOSH, NTP, IARC, or OSHA. Preexisting respiratory or skin condition(s) may be aggravated by exposure. **Medical**

Conditions Aggravated by Exposure: Prolonged exposure to solvents may aggravate allergic reactions to nose, throat and lungs.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

Eye Contact: Immediately flush with copious amounts of lukewarm water for at least 15 minutes. Have eyes examined and treated by medical personnel.

Skin Contact: Dry skin with paper towel or similar. Wash affected skin thoroughly with soap and water. Immediately remove contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if any discomfort continues. Wash contaminated clothes before reuse.

Inhalation: Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

Ingestion: If swallowed, Do Not induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into lungs

Notes for the doctor: Provide general supportive measures and treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: 213°F

Lower Explosive Limit: N/A

(Setaflash Closed Cup)

Upper Explosive Limit: N/A

Autoignition Temperature: N/D

Extinguishing Media: Foam, CO₂, Dry Chemical, Water, Fog

Unusual fire and explosion hazards: Fire produces irritating or poisonous gas. Liquid is combustible when hot. Can form explosive mixtures at temperatures at or above the flashpoint. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH.

Special Firefighting Procedures: Containers exposed to fire should be kept cool with water spray. As in fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Repeat sorbent/sweep cycle until the spill has dried up. Avoid runoff into storm sewers and ditches which lead to waterways

Reference to Other Sections: For personal protection, see Section 8. See Section 11 for additional information on health hazards.

See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

Handling: Use only in a well-ventilated area. Keep out of reach of children.

Storage: Keep away from heat, sparks and flame. Keep container closed when not in use

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

D-Prime Part B

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 09/22/2025

Engineering Controls: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

Respiratory Protection: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations.

Other Protective Equipment: Where contact is likely, wear chemical resistant gloves, chemical safety goggles with face shield, and clean protective clothing to cover arms and legs to keep exposure to a minimum.

Hygiene Practices: Do not take internally. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing

Occupational Exposure Limits

EXPOSURE LIMIT						
	ACGIH		OSHA		COMPANY	
ITEM	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
N-amino Ethyl Piperazine	N.E.	N.E.	N.E.	N.E.	N.E.	NO
Nonylphenol	N.E.	N.E.	N.E.	N.E.	N.E.	NO
Aliphatic Ether Polyamines	N.E.	N.E.	N.E.	N.E.	N.E.	NO

ACGIH = American Conference of Governmental Industrial Hygienists

OSHA = Occupational Safety and Health Administration

N.E. = Not Established

Appropriate Engineering Controls: Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Hand Protection: Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resistant degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Eye/Face Protection: Wear eye/face protection. Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles. A full face shield may also be necessary.

Skin Protection: Wear protective gloves/clothing. Wear as appropriate: Neoprene; Nitrile rubber. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear apron or protective clothing in case of contact.

Hygiene Measures: Wash after use and before eating, smoking, and using the toilet. Do not eat, drink, or smoke when using this product.

Respiratory Protection: If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4 Z94.4-02. Advice should be sought from respiratory protection specialists.

Environmental Exposure Controls: Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance: Liquid	Octanol/Water Coefficient: Log K _{OW} = NA
Odor: NA	Vapor Pressure: 1 mm Hg @ 20°C
Physical state: Liquid	Vapor Density (air=1): > air
pH: Not applicable	Percent Volatile by Volume: NA
DOT Corrosivity: Not applicable	Volatile Organic Content: NA
Boiling Point: 230°-232° F	Molecular Weight: NA
Melting Point: NA	Average Carbon Number: NA
Specific Gravity: 0.9759	Viscosity @ 100° F: NA
Pour Point: NA	Viscosity @ 40° C: NA
Solubility in Water: Appreciable	

D-Prime Part B

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 09/22/2025

SECTION 10: STABILITY AND REACTIVITY

Conditions to Avoid: Long term exposure to elevated temperatures.

Incompatible: Strong bases or oxidants. Strong Lewis or mineral acids.

Hazardous decomposition products: Poisonous & acrid fumes released on burning. Acrid fumes. Oxides of carbon.

Stability: This product is stable under normal storage conditions

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Product

Product Dermal LD50: No Information

Product Oral LD50: No information Product LC50: No Information

COMPONENT TOXOLOGY INFORMATION:

CHEMICAL NAME	DEMAL LD 50	ORAL LD 50	LC 50
N-Amino Ethyl Piperazine	0.88 g/kg	2.14 g/kg	No Information
Nonyl Phenol	2.14 g/kg	0.58 g/kg	No Information
Aliphatic Ether Polyamines	2.98 g/kg	2.88 g/kg	No Information

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic Toxicity: Not known.

Terrestrial Toxicity: Not known

Chemical Fate and Transport: Not known.

Ecological information: Toxic to fish and other water organisms

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Waste generation should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Unused and Contaminated Product: Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : UN 1760Corrosive liquid, n.o.s. (nonyl phenol and amino ethyl piperazine), 8, III
Hazard Class : 8
Identification Number : UN 1760
Packing Group : III

14.2 In Accordance with IMDG

Proper Shipping Name : UN 1760Corrosive liquid, n.o.s. (nonyl phenol and amino ethyl piperazine), 8, III
Hazard Class : 8
Identification Number : UN 1760
Packing Group : III

14.3 In Accordance with IATA

Proper Shipping Name : UN 1760Corrosive liquid, n.o.s. (nonyl phenol and amino ethyl piperazine), 8, III
Hazard Class : 8

D-Prime Part B

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 09/22/2025

Identification Number : UN 1760

Packing Group : III

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA – SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA Hazard Categories promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: **Immediate Health Hazard** **Chronic Health Hazard**

Sara Section 313: This product does not contain substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Toxic Substances Control Act:

This product does not contain chemical substances subject to the reporting requirements of TSCA 12 (B) if exported from the United States:

California Proposition 65:

There are no detectable components of this product that are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

International Regulations: as follows –

Canadian WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations Except for use of the 16 headings.

Health and Environmental Label Language

All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) inventory or exempt from listing on the TSCA inventory. All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the Domestic Substance List (DSL) or Non-Domestic Substance List (NDSL)

HMIS ratings – Health: 3

Flammability: 1

Reactivity: 0

Personal Protection: G

SECTION 16: OTHER INFORMATION

Revision Date : 09/22/2025

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document : The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-1800-762-8225
F-216-641-0633

This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.

North America GHS US 2018 & WHMIS