



D-Grip Part A

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-Grip Part A

Product Code: DD-Gr5-A01

Intended Use of the Product

Polyurethane/Polyurea Traffic Coating

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.
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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

Classification (GHS-US)

Flam. Liq. 3	H226
Acute Tox. Oral 4	H302
Acute Tox. Inhal. 2	H330
Acute Tox. 3 (Inhalation:dust,mist)	H331
STOT SE 3	H336
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Muta. 1B	H340
Carc. 1A	H350
Repr. 1B	H360
Tox. To Rep. 2	H361
Asp. Tox. 1	H304
Aquatic Acute 3	H402
Aquatic Chronic 2	H411
Aquatic Chronic 3	H412

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



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Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H226 - Flammable liquid and vapor
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation H330 - Fatal if inhaled
H331 - Toxic if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H336 - May cause drowsiness or dizziness
H340 - May cause genetic defects
H350 - May cause cancer
H360 - May damage fertility or the unborn child
H361 - Suspected of damaging fertility or the unborn child
H402 - Harmful to aquatic life
H411 - Toxic to aquatic life with long lasting effects H412 - Harmful to aquatic life with

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Precautionary Statements (GHS-US) :

- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
- P233 - Keep container tightly closed
- P240 - Ground/bond container and receiving equipment
- P241 - Use explosion-proof electrical, lighting, ventilating equipment
- P242 - Use only non-sparking tools
- P243 - Take precautionary measures against static discharge
- P260 - Do not breathe dust/fume/gas/mist/vapours/spray
- 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
- P271 - Use only outdoors or in a well-ventilated area
- P280 - Wear eye protection, face protection, protective clothing, protective gloves
- P281 - Use personal protective equipment as required.
- P284 - Wear respiratory protection
- P285 - In case of inadequate ventilation wear respiratory protection.
- P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- 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
- P304+341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- P310 - Immediately call a POISON CENTER or doctor/physician
- P311 - Call a POISON CENTER or doctor/physician.
- P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
- P320 - Specific treatment is urgent (see supplemental instructions on the administration of antidotes on this label)
- P321 - Specific treatment (see supplemental instructions on the administration of antidotes on this label).
- P330 - Rinse mouth
- P332+313 - If skin irritation occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse.
- P370+P378 - In case of fire: Use appropriate media for extinction.
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed
- P403 + P235 - Store in a well-ventilated place. Keep cool.
- P403+233 - Store in a well-ventilated place. Keep container tightly closed.
- P405 - Store locked up
- P501 - Dispose of contents/container according to local, regional, national, and international regulations

Emergency and Hazards Overview: Combustible, viscous, pigmented liquid with a solvent odor. Causes skin irritation. Causes eye irritation. Harmful if swallowed or inhaled. Vapors are heavier than air and may travel to distant sources of ignition and flash back. Overexposure to vapors may cause dizziness, headache and central nervous depression. The product contains small amounts of isocyanate, which can cause reactivation of prior asthma-type allergic reactions and irritation of nose, throat and lungs.

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NFPA Ratings

Health 2 Flammability 2 Reactivity 1

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.

Skin Contact: May cause skin irritation if wiped or left on the skin

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.

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component

Hazardous Components	CAS	Wt. % Range	Classification (GHS)
1-Methoxy-2-Propyl Acetate	108-65-6		Flam. Liq. 3, H226 Repr. 1B, H360 Aquatic Acute 3, H402
Aromatic Hydrocarbon Solvent	64742-95-6		Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Muta. 1B, H340 Carc. 1A, H350 Tox. To Rep. 2, H361 Aquatic Chronic 2, H411
3-Isocyanatomethyl-3.5.5 Trimethyl Cyclohexyl Isocyanate*	4098-71-9		Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330
Aliphatic Urethane Prepolymer			
Crystalline Silica (Quartz) 4-chlorobenzotrifluoride	14808-60-7		Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372
4-chlorobenzotrifluoride	98-56-6		Flam. Liq. 3, H226 Senz. Skin 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

* Information concerning non-hazardous ingredients is considered a trade secret

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.

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, contact a physician immediately. Do not induce vomiting. Decision to induce vomiting should only be made by a physician. Never give anything by mouth to an unconscious person.

Notes to Physician: This product contains aromatic and aliphatic hydrocarbon solvents and aliphatic isocyanate.

SECTION 5: FIRE-FIGHTING MEASURES

Flammable Properties

Flash Point: 106°F Test Method: TCC

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Flame extension: NA Test Method: NA

Flammable Limits in Air by Volume

Upper Percent: 13

Lower Percent: 1

Auto Ignition Temperature: NA Test Method: NA

NEPA Classification: H 2 F 2 R 1

Extinguishing Media: CO2, foam or dry chemicals.

Fire Fighting Measures

Special Fire Fighting Procedures and Equipment: Use alcohol resistant foam, carbon dioxide, dry chemical to fight fires. Water spray may be used to cool containers. Water or foam may cause frothing if liquid is burning. When entering fire area wear NIOSH/OSHA approved, self-contained breathing apparatus and full protective gear.

Unusual Fire and Explosion Conditions: Vapors may be ignited by heat or sparks. Vapors are heavier than air and may travel to distant sources of ignition and flash back. Heat-exposed containers may burst. Material may collect static charges which can cause an incendiary electrical discharge. Empty container contains product residues. Do not pressurize, cut, weld, drill, grind or expose empty containers to heat flame, sparks, static electricity or other sources of ignition. They may explode and cause injury or death.

Hazardous Combustion By-Products: CO, CO2, N2O, HCN, unburned hydrocarbons, toxic fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personnel Safeguards: Immediately evacuate all non-essential personnel to safe places. Emergency responders should wear positive pressure supplied air respirator with full face piece and proper protective gear before entering the affected area.

Regulatory Notifications: Waste of this product is defined as hazardous according to U.S. EPA. Spill reporting requirements and reportable quantities vary by region. Consult all applicable state and local regulations. For Canada, observe all precautions noted above.

Containment and Clean-up: Remove all sources of ignition. Provide ventilation. Respiratory protection is recommended during spill clean-up. Stop leak if possible without risk. Prevent liquids from entering sewers, drains or waterways by diking with sand or earth. Absorb with vermiculite or other absorbent material, then flush area with decontamination solution. Put in open drums. Treat and clean with decontamination solution consisting of water containing 4-8% ammonia and 2% detergent.

SECTION 7: HANDLING AND STORAGE

Handling: Provide good ventilation. Avoid prolonged contact with the skin. Air circulations and exhaustion of isocyanate or solvent vapors must be maintained until the coatings have fully cured to insure that no potential fire, explosion or health hazard remains. Use solvent resistant gloves. Avoid rubbing eyes while handling. Respiratory caution to be taken if the cured product is ground or sanded as this may generate hazardous dusts.

Storage: Store in cool, dry, ventilated space away from direct sunlight. Keep away from heat, sparks, open flames, electrical equipment, welding torches, pilot lights, etc. Store at 10-30° C

Empty Container Warnings

Drums: Do not reuse empty drums or containers. Do not cut, drill, grind or weld on or near the empty drum.

Plastic: Do not reuse empty containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

Component	CAS No.	Exposure Limit
Quartz (respirable)	14808-60-7	0.05 mg/m3 TWA, NIOSH
Aromatic hydrocarbon solvent	64742-95-6	100ppm ACGIH TWA
Aliphatic diisocyanate	4098-71-9	0.005ppm OSHA PEL

Personal Protective Equipment

Eye/Face Protection: Wear safety goggles

Skin Protection: Use solvent resistant gloves and long sleeved clothing.

Respiratory Protection: If airborne concentrations exceed or are expected to exceed the TLV, use MSHA/NIOSH approved positive pressure supplied air respirator with a full-face piece during application. After application use CCR (Chemical Cartridge Respirator).

Personal Hygiene: Avoid rubbing eyes during handling. Wear chemical tight goggles or full face shield. Use good personal hygiene practices to avoid incidental ingestion.

Engineering Controls/Work Practices

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Ventilation: Provide local exhaust or area ventilation to maintain concentration of vapors below TLV.

Use explosion proof ventilation equipment. Take care not to draw vapors into non-explosion proof or spark generating equipment or into occupied office areas or enclosed areas with inhabitants.

Other: Source of clean water should be available in the work area for flushing eyes and skin. Wash thoroughly with soap and water after use and before eating, smoking and using toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance: Colored viscous liquid	Octanol/Water Coefficient: Log Kow = ND
Odor: Typical solvent odor	Vapor Pressure: ND
Physical state: Viscous Liquid	Vapor Density (air=1): > air
pH: Not applicable	Percent Volatile by Volume: 24-30
DOT Corrosivity: Not applicable	Volatile Organic Content: 100 g/L
Boiling Point: 284 to 500 F	Molecular Weight: NA
Melting Point: N/A	Average Carbon Number: NA
Specific Gravity: 1.27	Viscosity @ 100° F: NA
Pour Point: NA	Viscosity@ 40° C: NA
Solubility in Water: negligible	Flash Point: 106 F

SECTION 10: STABILITY AND REACTIVITY

Conditions to Avoid: Avoid contact with strong oxidizing materials and bases. Avoid contact with water.

Incompatible: Strong oxidizers. Alkali metals. Reacts with water.

Stability: Stable under normal conditions. Avoid heat, sparks, flames

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Product

Primary Eye Irritation: Irritating

Primary Skin Irritation: Irritating

Acute Dermal Toxicity: NA

Subacute Dermal Toxicity: NA

Dermal Sensitization: NA

Inhalation Toxicity: NA

Inhalation Sensitization: NA

Oral Toxicity: Mutagenicity: NA

Carcinogenicity: Diisocyanates are suspect carcinogens. When ingested, diisocyanates have caused cancer in certain animals.

Crystalline silica is a carcinogen, listed as Human Carcinogen Category 1 in IARC. California Proposition 65 Chemicals and NIOSH also list respirable crystalline silica as carcinogenic. Keep it below 0.05 mg/m3.

Reproductive Toxicity: NA

Teratogenicity: NA

Immunotoxicity: NA

Neurotoxicity: NA

Other: NA

No other toxicological information available

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: Not known.

Terrestrial Toxicity: Not known

Chemical Fate and Transport: Not known.

No other ecological information available

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

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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

This section is provided to assist in the basic domestic DOT shipping classification of this product and does not contain all regulatory transportation details. Review all applicable domestic air and vessel and all international air, vessel and ground transportation regulations for other requirements and restrictions

14.1 In Accordance with DOT

Proper Shipping Name	: Combustible Liquid, n.o.s. (1-Methoxy-2-Propyl Acetate)
Hazard Class	: 3
Identification Number	: UN 1263
Packing Group	: III
Other:	Not regulated for non-bulk domestic ground shipments for packaging of 450 liters (119 gallons) or less (DOT 49CFR 173.150 (f)).

14.2 In Accordance with IMDG

Proper Shipping Name	: Combustible Liquid, n.o.s. (1-Methoxy-2-Propyl Acetate)
Hazard Class	: 3
Identification Number	: UN 1263
Packing Group	: III
Marine Pollutant	:

14.3 In Accordance with IATA

Proper Shipping Name	: Combustible Liquid, n.o.s. (1-Methoxy-2-Propyl Acetate)
Hazard Class	: 3
Identification Number	: UN 1263
Packing Group	: III

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

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

U.S. TSCA Inventory: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

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** **Fire** **Pressure** **Reactive**

SARA Section 302:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA Section 313: This product contains the following SARA, Title III, Section 313 Chemicals

: Chemical Name	CAS Number
Aliphatic Diisocyanate	4098-71-9
Quartz	14808-60-7

Regulatory Lists Searched

Health & Safety:

Environmental: NA

International: NA

State: FL, MA, MN, PA, RI

National Inventories: NA

California Proposition 65:

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WARNING! This product contains chemicals such as aliphatic diisocyanate known in the State of California to cause cancer, birth defects, and/or other reproductive harm.

International Regulations: as follows –

Canadian WHMIS: This product has been classified in accordance with hazard criteria of the Controlled Products Regulations (CPR). This SDS contains all the information required by the CPR.

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)

DSL/NDSL: The components of this product are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substance List (NDSL).

WHMIS Hazard Class: B3 D2A

HMIS ratings – Health: 2 **Flammability:** 2 **Reactivity:** 1 **Personal Protection:** G

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Other Regulations: No other information available

SECTION 16: OTHER INFORMATION

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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.
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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