# LEGGARI CRACK REPAIR Part A Safety Data Sheet

# **Table of Contents**

Product Identification
Hazard Identification
Composition Information
First-Aid Measures
Fire-Fighting Measures
Accidental Release Measures
Handling and Storage
Exposure Controls/Personal Protection
Physical and Chemical Properties.
Stability and Reactivity.
Toxicological Information
Ecological Information.
Disposal Considerations
Transport Information
Regulatory Information



TRADE NAME (AS LABELED):

SUPPLIER/MANUFACTURER'S NAME:

ADDRESS:

TELEPHONE: EMAIL:

EMERGENCY NUMBER: CHEMTREC EMERGENCY NUMBER: INTERNATIONAL

### 2 HAZARD IDENTIFICATION

### **CLASSIFICATION**

Specific Target Organ Toxicity - Single Exposure: (Respiratory Tract Irritation)	Category 3
Specific Target Organ Toxicity - Repeated Exposure:	Category 2
Skin Irritation:	Category 2
Respiratory Sensitizer (Solid/Liquid):	Category 1
Skin Sensitizer:	Category 1
Carcinogenicity:	Category 2
Eye Irritation:	Category 2
Acute toxicity, Oral:	Category 5

### SIGNAL WORD

#### DANGER

### HAZARDOUS STATEMENTS HEALTH

H335 - May cause respiratory irritation
H373 - May cause damage to organs through prolonged or repeated exposure.
H315 - Causes skin irritation
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317 - May cause an allergic skin reaction
H351 - Suspected of causing cancer.
H319 - Causes serious eye irritation

H303 - May be harmful if swallowed

### **PRECAUTIONARY STATEMENTS**

#### General

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

#### Prevention

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P233 Keep container tightly closed.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.

 $\mathsf{P280}$  - Wear protective gloves/protective clothing/eye protection/face protection.

### **PICTOGRAMS**



LEGGARI CRACK REPAIR PART A

LEGGARI PRODUCTS, LLC

3105 E AINSWORTH AVE WAREHOUSE 5, BAY 2 PASCO, WA 99301

1-844-LEGGARI (534-4274) CUSTOMERSERVICE@LEGGARI.COM

> 800-424-9300 (ACT. CCN1217) 703-527-3887 (ACT. CCN1217)

P284 - <In case of inadequate ventilation> wear respiratory protection. P272 - Contaminated work clothing should not be allowed out of the workplace.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

### Response

P304 - IF INHALED:

- P340 Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P314 Get Medical advice/attention if you feel unwell.
- P302 IF ON SKIN:
- P352 Wash with plenty of water.
- P321 Specific treatment (see section 4 on this SDS).
- P332 If skin irritation occurs:
- P313 Get medical advice/attention.
- P362 Take off contaminated clothing.
- P364 And wash it before reuse.
- P342 If experiencing respiratory symptoms:
- P311 Call a POISON CENTER/doctor.
- P333 If skin irritation or a rash occurs:
- P308 IF exposed or concerned:
- P305 IF IN EYES:
- P351 Rinse cautiously with water for several minutes.

P338 - Remove contact lenses, if present and easy to do. Continue rinsing. P337 - If eye irritation persists:

#### Storage

P403 - Store in a well-ventilated place. P405 - Store locked up.

#### Disposal

P501 - Dispose of contents/container to an approved waste disposal plant.

# 3 COMPOSITION INFORMATION

Chemical Name	CAS no.	% by Weight
4,4'-METHYLENEDIPHENYL DIISOCYANATE	0000101-68-8	33% - 61%
MDI (MONOMER)	0026447-40-5	4% - 8%

# 4 FIRST-AID MEASURES

#### Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

Eliminate all ignition sources if safe to do so.

### **Skin Contact:**

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before re-use or discard.

IF exposed or concerned: Get medical advice/attention.

#### Eye Contact:

Avoid direct contact. Wear chemical protective gloves, if necessary.

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

#### Ingestion:

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

IF exposed or concerned: Get medical advice/attention.

#### Suitable Extinguishing Media:

Dry chemical, foam, carbon dioxide is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

#### Unsuitable Extinguishing Media:

If water is used, use very large quantities of cold water. The reaction between water and hot isocyanate may be vigorous.

#### Specific Hazards in Case of Fire:

Vapors may accumulate and travel to ignition sources distant from the handling site; flash fire can occur.

Excessive pressure or temperature may cause explosive rupture of containers.

Water contamination will produce carbon dioxide. Do not reseal contaminated containers as pressure buildup may rupture them.

#### **Fire-Fighting Procedures:**

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

#### **Special Protective Actions:**

Wear NIOSH approved self-contained breathing apparatus in positive pressure mode with full-face piece. Boots, gloves (neoprene), goggles, and full protective clothing are also required.

Care should always be exercised in dust/mist areas.

## 6 ACCIDENTAL RELEASE MEASURES

#### **Emergency Procedure:**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

#### **Recommended equipment:**

Positive pressure, full-face piece self-contained breathing apparatus(SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

#### **Personal Precautions:**

Avoid breathing vapors. Avoid contact with skin, eyes or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

#### **Environmental Precautions:**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

#### Methods and Materials for Containment and Cleaning up:

Cover container, but do not seal, and remove from work area. Prepare a decontamination solution of 2.0% liquid detergent and 3-8% concentrated ammonium hydroxide in water (5-10% sodium carbonate may be substituted for the ammonium hydroxide). Follow the precautions on the supplier's safety data sheets.

Treat the spill area with the decontamination solution, using about 10 parts of the solution for each part of the spill, and allow it to react for at least 15 minutes. Carbon dioxide will be evolved, leaving insoluble polyureas. Residues from spill cleanup, even when treated as described may continue to be regulated under provisions of RCRA and require storage and disposal as hazardous waste.

Slowly stir the isocyanate waste into the decontamination solution described above. Let stand for 48 hours, allowing the evolved carbon dioxide to vent away, residues may still be subject to RCRA storage and disposal requirements. Dispose off in compliance with all relevant local, state, and federal laws and regulations regarding treatment.

# 7 HANDLING AND STORAGE

#### General

- Wash hands after use.

- Do not get in eyes, on skin or on clothing.
- Do not breathe vapors or mists.
- Use good personal hygiene practices.
- Eating, drinking and smoking in work areas is prohibited.

- Remove contaminated clothing and protective equipment before entering eating areas.

### **Ventilation Requirements**

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

#### **Storage Room Requirements**

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

- Ground and bond containers and receiving equipment. Avoid static electricity by grounding.

- Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Eye Protection:**

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

#### **Skin Protection:**

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Depending on conditions of use, additional protection may be required such as apron, arm covers, or full body suit. Wash contaminated clothing before re-wearing.

#### **Respiratory Protection:**

If airborne concentrations exceed or are expected to exceed the TLV, use MSHA/NIOSH approved positive pressure supplied pressure supplied air respiratory with a full face piece or an air supplied hood. For emergencies, use a positive pressure self-contained breathing apparatus. Air purifying (cartridge type) respirators are not approved for protection against isocyanates.

#### **Appropriate Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (ppm)		OSHA STEL (PPM)	OSHA STEL (mg/m³)	OSHA Tables (Z1, Z2, Z3)	OSHA Carcin- ogen	OSHA Skin designat ion	NIOSH TWA (ppm)	NIOSH TWA (mg/m³)	NIOSH STEL (ppm)	STEL	NIOSH Carcino gen
4,4'-METHYLENEDIPHEN YL DIISOCYANATE	0.02 ceiling	0.2 CEILING			1			0.005	0.050			

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)
4,4'-METHYLENEDIPHENYL DIISOCYANATE	0.005	0.051		

## PHYSICAL AND CHEMICAL PROPERTIES

Density:	9.52 lb/gal	Odor description:	N.A.
Specific gravity:	1.14	pH:	N.A.
VOC regulatory:	0.00 lb/gal	Water solubility:	N.A.
		Flammability:	N.A.
VOC part A & B Combined:	N.A.	Flash point symbol:	N.A.
Appearance:	N.A.	Flash point:	200° C
Odor threshold:	N.A.		

Viscosity:	N.A.	Low boiling point:	302°C
Lower explosion level:	N.A.	High boiling point:	N.A.
Upper explosion level:	N.A.	Auto ignition temp:	N.A.
Vapor pressure:	N.A.	Decomposition pt. :	N.A.
Vapor density:	Heavier than air	Evaporation rate:	Slower than ether
Freezing point:	N.A.	Coefficient water/oil:	N.A.
Melting point:	N.A.		

# 10 STABILITY AND REACTIVITY

#### Stability

Material is stable at standard temperature and pressure.

#### **Conditions to Avoid:**

Heat, high temperature, open flame, sparks, and moisture. Contact with incompatible materials in a closed system will cause liberation of carbon dioxide and buildup of pressure.

#### Hazardous Reactions/Polymerization:

Will not occur under normal conditions but under high temperatures in the presence of alkalis, tertiary amines, and metal compounds will accelerate polymerization. Possible evolution of carbon dioxide gas may rupture closed containers.

#### Incompatible Materials:

This product will react with any material containing active hydrogens, such as water, alcohol, ammonia, amines, alkalis and acids, the reaction with water is slow under 50°C, but is accelerated at higher temperature and in the presence of alkalis, tertiary amines, and metal compounds. Some reactions can be violent. Material can react with strong oxidizing agents.

#### **Hazardous Decomposition Products:**

Carbon dioxide, carbon monoxide, nitrogen oxides, trace amounts of hydrogen cyanide and unidentified organic compounds may be formed during combustion.

# 11 TOXICOLOGICAL INFORMATION

#### Skin corrosion/irritation:

Isocyanates react with skin protein and moisture and can cause irritation. Prolonged contact can cause reddening, swelling, rash, scaling, blistering, and, in some cases, skin sensitization. Individuals who have developed a skin sensitization can develop these symptoms as a result of contact with very small amounts of liquid material or as a result of exposure to vapor.

- Causes skin irritation

#### Serious eye damage/irritation:

Liquid, aerosols or vapors are severely irritating and can cause pain, tearing, reddening and swelling. Prolonged vapor contact may cause conjunctivitis. Any level of contact should not be left untreated. Causes serious eye irritation

#### **Carcinogenicity:**

• Suspected of causing cancer.

#### **Respiratory/Skin Sensitization**

- May cause an allergic skin reaction.

#### Germ cell mutagenicity:

• No data available

#### **Reproductive Toxicity:**

• No data available.

Specific Target Organ Toxicity-Single Exposure: • May cause respiratory irritation.

#### Specific Target Organ Toxicity-Repeated Exposure:

· May cause damage to organs through prolonged or repeated exposure.

#### **Aspiration Hazard:**

No data available

### Acute Toxicity:

No data available
 0000101-68-8 4,4'-METHYLENEDIPHENYL DIISOCYANATE
 LC50 (rat): 369-490 mg/m3 (aerosol) (4-hour exposure) (1)
 LC50 (rat): 178 mg/m3 (17.4 ppm) (duration of exposure not reported) (2)
 LD50 (oral, rat): greater than 10,000 mg/kg (1,2) LD50 (dermal, rabbit):
 greater than 10,000 mg/kg (1) LD50 (oral, mouse): 2,200 mg/kg (3)

# 12 ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative Potential	No data available
Mobility in soil	No data available
Other adverse effects	No data available

# 13 DISPOSAL CONSIDERATIONS

#### Waste disposal:

Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

# 14 TRANSPORT INFORMATION

### **U.S. DOT INFORMATION**

Not regulated

### IMDG INFORMATION Not regulated

IATA INFORMATION

Not regulated

# 15 REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0000101-68-8	4,4'- METHYLENEDIPHENYL DIISOCYANATE	33% - 61%	DSL,CERCLA,HAPS,SARA312,SARA313,VHAPS,VOC,TSCA
0026447-40-5	MDI (MONOMER)	4% - 8%	DSL,SARA312,TSCA

# 16 OTHER INFORMATION

#### Note

As per GHS, category 1 is the greatest level of hazard within each class.

### GLOSSARY

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SCHA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

Prepared by: Revision Date: LEGGARI PRODUCTS LLC JANUARY 1, 2023

### **DISCLAIMER:**

Leggari Products, LLC believes, to the best of its knowledge, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Leggari Products, LLC makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.