

SECTION

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CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS:
 Checkerspot, Inc.
 (510) 239-7921
 1250 Marina Village Parkway
 Alameda, CA 94501

EMERGENCY TELEPHONE NUMBERS:
 (510) 239-7921
 9 a.m. – 5 p.m. Pacific Monday – Friday.

PRODUCT NAME: Algal Cast PU: Prepolymer Blend
CHEMICAL NAME: Prepolymer
PRODUCT USE: Research purposes only
REACH STATUS: Not registered. For research purposes only

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HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

HAZARD CLASSIFICATION OF THE CHEMICAL: Hazardous

SIGNAL WORD: N/A

HAZARD STATEMENT(S):

The toxicological properties of this substance have not been fully investigated.

PICTOGRAMS:



PRECAUTIONARY STATEMENT(S):

- May cause skin irritation.
- This material may produce dust.
- Dust may cause eye irritation.
- Dust may cause respiratory tract irritation.
- Can ignite at high temperatures.

DESCRIPTION OF ANY HAZARDS NOT OTHERWISE CLASSIFIED: N/A

HOW MUCH (PERCENTAGE) OF THE MIXTURE CONSISTS OF INGREDIENT(S) WITH UNKNOWN ACUTE TOXICITY: 10 – 15%

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COMPOSITION, INFORMATION OF INGREDIENTS

The specific chemical identity and/or exact percentage (concentration) of composition for certain ingredients has been withheld as a trade secret.

COMPONENT	PERCENTAGE	CAS NUMBER
Polymethylene polyphenylene isocyanate	35-45%	9016-87-9
4,4'-Methylenediphenyl diisocyanate (MDI)	35-45%	101-68-8
Other ingredients	10-30%	N/A

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FIRST AID MEASURES

First Aid responders should use protective equipment in sections 5 and 8 if there is a potential for exposure to product. Have a product container or label with you when calling a poison control center or doctor.

IF INHALED: If inhaled, remove to fresh air. If breathing is difficult, get medical attention.

IF ON SKIN OR CLOTHING: Remove contaminated clothing. Rinse skin if needed with water. Repeated exposure to skin may elicit allergic reaction.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Wash out mouth with water. Move exposed person to fresh air. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: No specific antidote, treat symptomatically.

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FIRE FIGHTING MEASURES

PHYSICAL HAZARDS: Can ignite at high temperatures.

FLASHPOINT: >446°F / >230°C

EXTINGUISHING MEDIA: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Exercise caution when extinguishing large volumes with water as this will cause evolution of CO₂ gas

FIRE AND EXPLOSION HAZARD: Can burn in fire. Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

FIRE FIGHTING INSTRUCTIONS: Evacuate area and fight fire upwind from a safe distance. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff. Minimize use of water to prevent environmental contamination and CO₂ generation. Exercise caution when fighting fire with water as interaction between hot polymeric MDI and water can be violent!

FIRE FIGHTING EQUIPMENT: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. PVC boots, gloves, safety helmet and protective clothing should be worn.

SECTION**6****ACCIDENTAL RELEASE MEASURES**

IN CASE OF SPILLS OR LEAKS: Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to federal, state, local and regional authority requirements.

LARGE SPILL: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to federal, state, local and regional authority requirements.

ENVIRONMENTAL PRECAUTIONS: This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Minimize use of water to prevent environmental contamination.

SECTION**7****HANDLING AND STORAGE**

HANDLING: Keep away from high heat. Keep away from sources of ignition. Empty containers pose a fire risk. Minimize dust inhalation. Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling concentrate. Remove PPE immediately after handling this product. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

STORAGE: Keep container in a cool, well-ventilated area. Keep container closed.

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**EXPOSURE CONTROLS,
PERSONAL PROTECTION**
EXPOSURE LIMITS:

Product Name	Exposure Limits
N/A	OSHA PEL. N/A NIOSH REL N/A ACGIH TLV N/A CAL-OSHA PEL N/A

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product. Avoid the generation of dust, fume, or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION – Chemical safety goggles or glasses with side shields.

CLOTHING - Long-sleeved shirt and long pants, Chemical-resistant footwear plus socks

GLOVES - The following protective materials are recommended: chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC), viton

RESPIRATOR – Not required when handled under normal] conditions. When handling in enclosed areas with inadequate ventilation, use a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

USER SAFETY RECOMMENDATIONS: Remove PPE immediately after handling this product. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

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**PHYSICAL AND
CHEMICAL PROPERTIES**

Appearance:	Liquid, dark brown
Odor:	Characteristic, musty
pH: (1% soln/water):	Not applicable
Melting Point:	Not applicable
Boiling Point:	>300°C
Flash Point:	>230°C
Evaporation Rate:	Not applicable
Flammability:	Not flammable
Flammability Limits:	Not applicable
Taste:	Not available
Molecular Weight:	Not available
Color:	Dark Brown
Boiling Point:	Not available

Melting Point:	Not available
Critical Temperature:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not available
Volatility:	Not available
Odor Threshold:	Not available
Water/Oil Dist. Coeff.:	Not available
Ionicity (in Water):	Not available
Dispersion Properties:	Not available
Solubility:	Not soluble in water
Stability:	The product is stable
Corrosivity:	Not corrosive
Auto-Ignition Temperature:	No data
Decomposition Temperature:	>300°C

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STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions. May decompose if heated to high temperatures.

PRODUCT REACTIVITY: Reactive

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization

CONDITIONS TO AVOID: Avoid temperatures above 300°F (150°C) for prolonged period of time.

INCOMPATIBLE MATERIALS: Water will lead to evolution of CO₂ gas

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion products may include: carbon oxides (CO, CO₂).

OTHER: N/A.

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TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation. Ingestion. Dermal.

Toxicity to Animals: LD50: Not available.

LC50: Not available.

Acute Health Effects: Not available.

Chronic Effects: May cause allergenicity on skin.

CANCER CLASSIFICATION:

ACGIH	IARC	EPA	NIOSH	NTP	OSHA
-	-	-	-	-	-

TERATOGENICITY: Not available.

MUTAGENICITY: Not available.

Special Remarks Toxicity to Animals: Not available.

Special Remarks Toxic Effects to Humans: May cause skin irritation. Eyes: Dust may cause eye irritation. Inhalation: This material may produce dust. May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

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ECOLOGICAL INFORMATION

Aquatic Ecotoxicity: Not available.

Mobility: Not available.

Environmental Effects: Not available.

Biodegradation: Not available.

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DISPOSAL CONSIDERATIONS

WASTE: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products must be disposed of in accordance with federal, state and local environmental control regulations. Do not contaminate water, food or feed by storage or disposal. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material (United States) for quantities under 5000 lbs .

Identification: Not applicable.

Class: Not applicable.

PG: Not applicable.

Special Provisions for Transport: Not applicable.

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REGULATORY INFORMATION

Federal and State Regulations: United States Inventory (TSCA 8b): Not Listed. TSCA Research and Development Use Only for industrial uses. TSCA exempt for food-contact and cosmetic use.

CEPA (DSL/NDSL): Canada inventory: Not Listed.

CERCLA Hazardous Substances:

Components	Concentration	Section 304 CERCLA Hazardous Substance	CERCLA Reportable Quantity	Product Reportable Quantity
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None.

DSCL (EEC): This product is not classified according to the EU regulations.

HMIS (U.S.A.): Health Hazard: 1 Fire Hazard: 1 Reactivity: 0

National Fire Protection Association (U.S.A.): Health: 2 Flammability: 1 Reactivity: 1]Specific hazard: none

California Prop 65: No Ingredients listed

WHIMS (CANADA): Not controlled under WHMIS (Canada).

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OTHER INFORMATION

References: Not available.

Other Special Considerations: Not available.

Created: 9/16/2020

Updated 10/20/2021

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