

TRI-BUILT® PG-1 EF ECO PART 1

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME:	TRI-BUILT® PG-1 EF ECO Part 1	DISTRIBUTED BY:	Beacon Sales Acquisition, Inc.
ARTICLE NUMBER:	SDS201	ADDRESS:	505 Huntmar Park Drive, Suite 300 Herndon, VA 20170
PRODUCT TYPE:	Adhesive	PHONE:	571-323-3939
PRODUCT USE:	Industrial Use Only	INTERNET:	www.becn.com
MANUFACTURER:	H. B. Fuller Company		
ADDRESS:	1200 Willow Lake Boulevard Vadnais Heights, MN 55110 1-888-853-1758		
PHONE:	CHEMTREC: DAY OR NIGHT WITHIN USA AND CANADA: 1-800-424-9300.		
EMERGENCY PHONE:	OUTSIDE USA AND CANADA: +1 703-527-3887 (COLLECT CALLS ACCEPTED)		
EFFECTIVE DATE:	1/30/2024		

2 Hazard(s) identification

· *Classification of the substance or mixture*



GHS04 Gas cylinder

Press. Gas H280 Contains gas under pressure; may explode if heated.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· *Label elements*

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

USA

TRI-BUILT® PG-1 EF ECO PART 1

(Contd. of page 1)

· **Hazard pictograms**



GHS04 GHS07 GHS08

· **Signal word** *Danger*

· **Hazard statements**

- Contains gas under pressure; may explode if heated.*
- Harmful if inhaled.*
- Causes skin irritation.*
- Causes serious eye irritation.*
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.*
- May cause an allergic skin reaction.*
- Suspected of causing cancer.*
- May cause respiratory irritation.*
- May cause damage to organs through prolonged or repeated exposure.*
- Harmful to aquatic life with long lasting effects.*

· **Precautionary statements**

- Obtain special instructions before use.*
- Do not handle until all safety precautions have been read and understood.*
- Do not breathe dust/fume/gas/mist/vapors/spray.*
- Wash thoroughly after handling.*
- Use only outdoors or in a well-ventilated area.*
- Contaminated work clothing must not be allowed out of the workplace.*
- Avoid release to the environment.*
- Wear protective gloves/protective clothing/eye protection/face protection.*
- [In case of inadequate ventilation] wear respiratory protection.*
- If on skin: Wash with plenty of water.*
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.*
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
- IF exposed or concerned: Get medical advice/attention.*
- Call a poison center/doctor if you feel unwell.*
- Specific treatment (see on this label).*
- Get medical advice/attention if you feel unwell.*
- Take off contaminated clothing and wash it before reuse.*
- If skin irritation or rash occurs: Get medical advice/attention.*
- If eye irritation persists: Get medical advice/attention.*
- If experiencing respiratory symptoms: Call a poison center/doctor.*
- Wash contaminated clothing before reuse.*
- Store in a well-ventilated place. Keep container tightly closed.*
- Store locked up.*
- Protect from sunlight. Store in a well-ventilated place.*
- Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 3
Fire = 0
Reactivity = 0

(Contd. on page 3)

USA

TRI-BUILT® PG-1 EF ECO PART 1

(Contd. of page 2)

· **HMIS-ratings (scale 0 - 4)**

HEALTH	*2	Health = *2
FIRE	0	Fire = 0
PHYSICAL HAZARD	0	Physical Hazard = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

* **3 Composition/information on ingredients**

- **Chemical characterization: Mixtures**
- **Description: Mixture**

· **Hazardous components:**

9016-87-9	diphenylmethanediisocyanate, isomeres and homologues {polymer exempt}	50-100%
101-68-8	4,4'-methylenediphenyl diisocyanate (MDI)	25-50%
26447-40-5	methylenediphenyl diisocyanate	2.5-10%
102687-65-0	trans-1-Chloro-3,3,3-trifluoropropene	2.5-10%

* **4 First-aid measures**

- **Description of first aid measures**
- **After inhalation:**
 Call a doctor immediately.
 Overexposure, remove to fresh air and seek medical attention.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
 Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
 Rinse mouth with water.
 Seek medical treatment.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
 No further relevant information available.

* **5 Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**
 CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
 CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**
 Water
 Water and water with full jet
- **Special hazards arising from the substance or mixture**
 Avoid inhalation of material or combustion by-products.

(Contd. on page 4)

USA

TRI-BUILT® PG-1 EF ECO PART 1

(Contd. of page 3)

No further relevant information available.

- **Advice for firefighters**
 Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
- **Protective equipment:** Protective clothing and respiratory protective device.

*

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 Wear protective equipment. Keep unprotected persons away.
 Ensure adequate ventilation
- **Environmental precautions:**
 Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
 Dispose of contaminated material as waste in accordance with federal state and local regulations.
 Ensure adequate ventilation.
 Do not flush with water or aqueous cleansing agents
- **Reference to other sections**
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

*

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Open and handle receptacle with care.
- **Information about protection against explosions and fires:**
 Do not spray on a naked flame or any incandescent material.
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
 Empty containers may contain hazardous residuals. Keep away from heat, sparks and open flame. DO NOT cut, drill, puncture, weld or grind on or near full, partially full or empty product containers.
 Store in a cool location away from direct heat.
 Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:**
 Keep away from open flames and high temperatures.
 Store away from oxidizing agents.
- **Further information about storage conditions:**
 Keep away from heat, spark and flame.
 Keep receptacle tightly sealed.
 Store in cool, dry conditions in well sealed receptacles.
 Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

USA

(Contd. on page 5)

TRI-BUILT® PG-1 EF ECO PART 1

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

101-68-8 4,4'-methylenediphenyl diisocyanate (MDI)

PEL	Ceiling limit value: 0.2 mg/m ³ , 0.02 ppm
REL	Long-term value: 0.05 mg/m ³ , 0.005 ppm Ceiling limit value: 0.2* mg/m ³ , 0.02* ppm *10-min
TLV	Long-term value: 0.051 mg/m ³ , 0.005 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment (see listings below)**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Safety glasses with side shields.



Tightly sealed goggles

(Contd. on page 6)

USA

TRI-BUILT® PG-1 EF ECO PART 1

(Contd. of page 5)

· **Body protection:** Protective work clothing

* **9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Aerosol
· Color:	Amber colored
· Odor:	Aromatic
· Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· Melting point:	Undetermined.
· Boiling point:	Undetermined

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not determined.

· **Ignition temperature:** 260 °C (500 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Not determined.

· **Vapor pressure:** Not determined.

· Specific gravity at 20 °C (68 °F):	1.23 g/cm ³ (10.26435 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not applicable.

· **Solubility in / Miscibility with Water:** Reacts slowly with water.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· Dynamic:	Not determined.
· Kinematic:	Not determined.

· **Solvent content:**

· Organic solvents:	0 %
· Water:	0 %
· VOC (Per EPA 24)	<50 g/L

· **Other information** No further relevant information available.

* **10 Stability and reactivity**

· **Reactivity** Stable under recommended storage conditions.

(Contd. on page 7)

—USA

TRI-BUILT® PG-1 EF ECO PART 1

(Contd. of page 6)

- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
 Contact with moisture, other materials that react with isocyanates, or temperatures above 350F (177C), may cause polymerization.
 Avoid heat, flames, sparks.
- **Possibility of hazardous reactions**
 MDI reacts slowly with water to form Carbon Dioxide gas. The gas can cause sealed containers to expand and possibly rupture.
- **Conditions to avoid**
 Heat, flames, sparks.
 Moisture
- **Incompatible materials:**
 Reacts with oxidizing agents.
 Water reactive, keep away from contact with water.
- **Hazardous decomposition products:**
 Carbon dioxide
 Hydrocarbons

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

110-82-7 cyclohexane		
Oral	LD50	12,705 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:**
 Skin irritant.
 Irritant to skin and mucous membranes.
- **on the eye:**
 Causes serious eye irritation.
 Vapors may be irritating to the eyes.
 Irritating effect.
- **Sensitization:**
 Skin Contact - May cause allergic skin reaction.
 Inhalation - Sensitization possible through inhalation.
 Skin Contact - Sensitization possible through skin contact.
- **Additional toxicological information:**
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Harmful
 Irritant
- **Carcinogenic categories**

IARC (International Agency for Research on Cancer)		
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues {polymer exempt}	3
101-68-8	4,4'-methylenediphenyl diisocyanate (MDI)	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.		
------------------------------------	--	--

(Contd. on page 8)

USA

TRI-BUILT® PG-1 EF ECO PART 1

(Contd. of page 7)

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxic effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Toxic for aquatic organisms
Water hazard class 2 (Self-assessment): hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.
Disposal must be made according to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|---|
| · UN-Number | |
| · DOT, IMDG, IATA | UN3500 |
| · UN proper shipping name | |
| · DOT | Chemical under pressure, n.o.s. (trans-1-Chloro-3,3,3-trifluoropropene) |
| · IMDG | CHEMICAL UNDER PRESSURE, N.O.S. (trans-1-Chloro-3,3,3-trifluoropropene) |
| · IATA | CHEMICAL UNDER PRESSURE, N.O.S. |

(Contd. on page 9)

USA

TRI-BUILT® PG-1 EF ECO PART 1

(Contd. of page 8)

· **Transport hazard class(es)**

· **DOT**



· **Class** 2.2
 · **Label** 2.2

· **IMDG, IATA**



· **Class** 2.2
 · **Label** 2.2

· **Packing group**
 · **DOT, IMDG, IATA** not regulated

· **Environmental hazards:**
 · **Marine pollutant:** Yes

· **Special precautions for user** Warning: Gases

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **UN "Model Regulation":** UN 3500 CHEMICAL UNDER PRESSURE, N.O.S. (TRANS-1-CHLORO-3,3,3-TRIFLUOROPROPENE), 2

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 · **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues (polymer exempt)

101-68-8 4,4'-methylenediphenyl diisocyanate (MDI)

· **TSCA (Toxic Substances Control Act):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

· **Hazardous Air Pollutants**

101-68-8 4,4'-methylenediphenyl diisocyanate (MDI)

· **Proposition 65**

Please contact H.B. Fuller for more information regarding Proposition 65 on this product:
 reg.request@hbfuller.com .

· **(DSL) Canada Domestic Substance List**

All components of this product are on the DSL (Canada Domestic Substance list) or are exempt from DSL requirements.

(Contd. on page 10)

USA

TRI-BUILT® PG-1 EF ECO PART 1

(Contd. of page 9)

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

9016-87-9	diphenylmethanediisocyanate, isomeres and homologues (polymer exempt)	CBD
101-68-8	4,4'-methylenediphenyl diisocyanate (MDI)	D, CBD

· **TLV (Threshold Limit Value)**

None of the ingredients listed.

· **MAK (German Maximum Workplace Concentration)**

9016-87-9	diphenylmethanediisocyanate, isomeres and homologues (polymer exempt)	4
101-68-8	4,4'-methylenediphenyl diisocyanate (MDI)	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **National regulations:**

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

· **Department issuing SDS:**

Global Regulatory Department.

reg.request@hbfuller.com

· **Creation Date:** 01/25/2012

· **Contact:**

Please contact H.B. Fuller for more information regarding Proposition 65 on this product:

reg.request@hbfuller.com .

· **Date of preparation / last revision** 12/15/2021 / 1

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Press. Gas: Gases under pressure – Compressed gas

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Resp. Sens. 1: Respiratory sensitisation – Category 1

(Contd. on page 11)

USA

TRI-BUILT® PG-1 EF ECO PART 1

(Contd. of page 10)

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

USA