

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.29.2020

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Revision date: 04.01.2020

BEYPUR 320 BINDER

SECTION 1: Identification

Product identifier

Product name: BEYPUR 320 BINDER

Synonyms: Modified Diphenylmethane Diisocyanate Blend

Recommended use of the product and restriction on use

Relevant identified uses: For Commercial Use Only

Uses advised against: Avoid water, alcohol, strong bases, substances and products that react with isocyanates.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

BEYNON Sports Surfaces, Inc.

16 Alt Road

Hunt Valley, MD 21030

(410) 771-9473

sds@beynonssports.com

www.beynonssports.com

Emergency telephone number:

United States

CHEMTREC

800-424-9300 (24 hours)

DISTRICT OF COLUMBIA: 202-483-7616

SECTION 2: Hazard(s) identification

GHS classification:

Skin irritation, category 2

Eye irritation, category 2B

Skin sensitization, category 1

Respiratory sensitization, category 1

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

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H315 Causes skin irritation

H320 Causes eye irritation

H317 May cause an allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation

Precautionary statements:

P264 Wash hands thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P272 Contaminated work clothing must not be allowed out of the workplace

P284 Wear respiratory protection

P271 Use only outdoors or in a well-ventilated area

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P362 Take off contaminated clothing and wash it before reuse

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 If eye irritation persists: Get medical advice/attention

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 Call a POISON CENTER or doctor if you feel unwell

P403+P233 Store in a well-ventilated place. Keep container tightly closed

P405 Store locked up

P501 Dispose of contents/container in accordance with all Federal, state, and local laws and regulations.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 101-68-8	4,4'-methylenediphenyl diisocyanate	2-4
CAS number: 5873-54-1	2,4'-methylenediphenyl diisocyanate	0.6-1.5

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance.

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical

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advice/attention.

After eye contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Skin contact may result in redness, pain, burning and inflammation.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

Inhalation exposure may cause allergy, asthma symptoms or breathing difficulties. Symptoms may include cough, chronic phlegm, shortness of breath, wheezing and chest tightness. Symptoms may be delayed.

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract.

Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

Immediate medical attention and special treatment

Specific treatment:

Effects are dependent on exposure (dose, concentration, contact time).

If respiratory symptoms persist, seek medical attention.

Indication of immediate medical attention and special treatment needed Maintain adequate ventilation and oxygenation of the patient. May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help. May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, expectorants and antitussives may be of help. Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. If you are sensitized to diisocyanates, consult your physician regarding working with other respiratory irritants or sensitizers. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).

Notes for the doctor:

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

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Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards during fire-fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA with a full-face piece operated in positive pressure mode).

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

SPILL OR LEAK PROCEDURES: Evacuate non-emergency personnel. Isolate the area and prevent access. Notify management. Put on protective equipment. Control source of the leak. Remove any ignition sources. Ventilate. Contain the spill to prevent spread into drains, sewers, water supplies, or soil. Call ChemTrec at 800-424-9300 or 703-527-3887 for assistance and advice. Major Spill or Leak (Standing liquid): Released material may be pumped into closed, but not sealed, metal container for disposal. Process can generate heat. Minor Spill or Leak (Wet surface): Cover spill area with suitable absorbent material (Kitty Litter, Oil-Dri®, etc). Saturate absorbent material with neutralization solution and mix. Wait 15 minutes. Collect material in open-head metal containers. Repeat applications of decontamination solution, with scrubbing, followed by absorbent until the surface is decontaminated. Check for residual surface contamination. Apply lid loosely and allow containers to vent for 72 hours to let carbon dioxide (CO₂) escape.

CLEAN UP: Wash down spill area with decontamination solution. Allow solution to stand for at least 10 minutes. Neutralization solutions: (1) Colorimetric Laboratories Inc. (CLI) decontamination solution. (2) A mixture of 75% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10) and 5% npropanol. (3) A mixture of 80% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10). (4) A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid

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breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
NIOSH	4,4'-methylenediphenyl diisocyanate	101-68-8	REL: 0.05 mg/m ³ (10-hour)
	4,4'-methylenediphenyl diisocyanate	101-68-8	Ceiling Limit: 0.2 mg/m ³ (10-min)
	4,4'-methylenediphenyl diisocyanate	101-68-8	Ceiling Limit: 0.02 ppm (10-min)
	4,4'-methylenediphenyl diisocyanate	101-68-8	REL: 0.005 ppm (10-hour)
OSHA	4,4'-methylenediphenyl diisocyanate	101-68-8	PEL: 0.2 mg/m ³
ACGIH	4,4'-methylenediphenyl diisocyanate	101-68-8	8-Hour TWA: 0.005 ppm

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Medical Surveillance: All applicants who are assigned to an isocyanate work area should undergo a pre-placement medical evaluation. A history of eczema or respiratory allergies such as hay fever, are possible reasons for medical exclusion from isocyanate areas. Applicants who have a history of adult asthma should be restricted from work with isocyanates. Applicants with a history of prior isocyanate sensitization should be excluded from further work with isocyanates. A comprehensive annual medical surveillance program should be instituted for all employees who are potentially exposed to diisocyanates. Once a worker has been diagnosed as sensitized to any isocyanate, no further exposure can be permitted.

Appropriate engineering controls:

Effective ventilation in all processing areas.

Personal protection equipment

Eye and face protection:

Safety goggles or safety glasses with side shields

Skin and body protection:

Chemical resistant clothing, chemical resistant gloves

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory protection

General hygienic measures:

Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday.

Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions.

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Not determined or not available.
Odor	Musty
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not applicable
Initial boiling point/range	392 oF (200 oC) @ 5mmHg
Flash point (closed cup)	392 oF (200oC) (ASTM D92)
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper flammability/explosive limit	Not applicable
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not applicable
Vapor density	Not determined or not available.
Density	9.1 lbs/gal
Relative density	1.09 - 1.10 g/cm3 @25 oC
Solubilities	Insoluble- Reacts with water to liberate CO2 gas
Partition coefficient (n-octanol/water)	Reacts with water
Auto/Self-ignition temperature	Not self-igniting
Decomposition temperature	Not determined or not available.
Dynamic viscosity	2500-3500 mPas (25oC)
Kinematic viscosity	Not determined or not available.
Explosive properties	Not applicable
Oxidizing properties	Not applicable

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal storage and handling conditions.

Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid:

Incompatible materials.

Incompatible materials:

Strong oxidizing agents.

Avoid water, amines, strong bases, alcohols, metal compounds and moisture. Material reacts slowly with water, releasing carbon dioxide which can cause pressure buildup and rupture of closed containers.

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
2,4'-methylenediphenyl diisocyanate	oral	LD50 Rat: >2000 mg/kg
	inhalation	LC50 Rat: 0.49 mg/L (4 hours)
	dermal	LD50 Rabbit: >9400 mg/kg

Skin corrosion/irritation

Assessment:

Causes skin irritation.

Product data:

No data available.

Substance data:

Name	Result
4,4'-methylenediphenyl diisocyanate	Causes skin irritation.
2,4'-methylenediphenyl diisocyanate	Causes skin irritation.

Serious eye damage/irritation

Assessment:

Causes eye irritation.

Product data:

No data available.

Substance data:

Name	Result
4,4'-methylenediphenyl diisocyanate	Causes serious eye irritation.
2,4'-methylenediphenyl diisocyanate	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment:

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Product data:

No data available.

Substance data:

Name	Result
4,4'-methylenediphenyl diisocyanate	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	May cause an allergic skin reaction.

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Name	Result
2,4'-methylenediphenyl diisocyanate	May cause an allergic skin reaction.
	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Species	Result
4,4'-methylenediphenyl diisocyanate		Suspect of causing cancer.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

OSHA Carcinogens: Not applicable

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment:

May cause respiratory irritation.

Product data:

No data available.

Substance data:

Name	Result
4,4'-methylenediphenyl diisocyanate	May cause respiratory irritation.
2,4'-methylenediphenyl diisocyanate	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
4,4'-methylenediphenyl diisocyanate	May cause damage to respiratory system through prolonged or repeated inhalation.

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Name	Result
2,4'-methylenediphenyl diisocyanate	May cause damage to respiratory system through repeated or prolonged exposure via inhalation.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
2,4'-methylenediphenyl diisocyanate	LC50 Danio rerio: >1000 mg/L (96 hours)
	EC50 Daphnia magna: 129.7 mg/L (24 hours)

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
2,4'-methylenediphenyl diisocyanate	EC50 Scenedesmus subspicatus: >1640 mg/L (3 days)
	NOEC Daphnia magna: >10 mg/L (21 days)

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
2,4'-methylenediphenyl diisocyanate	Not readily biodegradable.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
2,4'-methylenediphenyl diisocyanate	BCF: 200

Mobility in soil

Product data: No data available.

Substance data:

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Name	Result
2,4'-methylenediphenyl diisocyanate	No accumulation is expected in soil.

Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT..

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB..

Substance data:

PBT assessment:

2,4'-methylenediphenyl diisocyanate	Substance is not PBT.
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vPvB assessment:

2,4'-methylenediphenyl diisocyanate	Substance is not vPvB.
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Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

Waste must be disposed of in accordance with federal, state, and local Environmental control regulations.

Incineration is the preferred method.

Contaminated packages:

Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed prior to disposal.

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None
Reportable quantity	5000 lbs (2270 kg) MDI
Additional Information	Additional DOT Transportation Information: When in individual containers of more than the Product RQ, this material ships as Regulated as follows: UN NUMBER: NA3082 UN PROPER SHIPPING NAME: Other regulated substances, liquid, n.o.s. (contains 4,4'-Diphenylmethane Diisocyanate (MDI)) HAZARD CLASS(ES) or DIVISION: 9 HAZARD LABEL: Class 9 PACKAGING GROUP: III DOT (DOMESTIC SURFACE): 4,4'-Diphenylmethane Diisocyanate (MDI)

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
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UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

101-68-8	4,4'-methylenediphenyl diisocyanate	Listed
5873-54-1	2,4'-methylenediphenyl diisocyanate	Listed

Significant New Use Rule (TSCA Section 5): All ingredients are listed or exempt.

SARA Section 313 toxic chemicals: All ingredients are listed or exempt.

CERCLA:

101-68-8	4,4'-methylenediphenyl diisocyanate	Listed	5000 Lbs
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Massachusetts Right to Know:

101-68-8	4,4'-methylenediphenyl diisocyanate	Listed
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New Jersey Right to Know:

101-68-8	4,4'-methylenediphenyl diisocyanate	Listed
5873-54-1	2,4'-methylenediphenyl diisocyanate	Listed

New York Right to Know:

101-68-8	4,4'-methylenediphenyl diisocyanate	Listed
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Pennsylvania Right to Know:

101-68-8	4,4'-methylenediphenyl diisocyanate	Listed
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California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless

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specified in the text. The responsibility to provide a safe workplace remains with the user.

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Additional information:

Cured Product Statement: A Polyurethane Surface, is the result of curing component polyurethanes. Polyurethane Elastomers are fully reacted polymers forming articles which are not considered hazardous under OSHA's Criteria 29CFR 1910.1200. However, hazardous dusts, vapors, gases or fumes may be released by mechanical or thermal processing, or by thermal decomposition.

End of Safety Data Sheet