



Beacon Adhesives
125 Macquesten Parkway South
Mount Vernon, NY, USA, 10550
Telephone: (914) 699 3400

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SECTION 1. IDENTIFICATION

Product identifier used on the label

:Gem-Tac

Other means of identification : None assigned.

Recommended use of the chemical and restrictions on use

Adhesives

Keep out of reach of children. Keep from freezing.

Chemical family : Mixture

**Name, address, and telephone number
of the supplier:**

Beacon Adhesives

125 Macquesten Parkway South

Mount Vernon, NY, USA

10550

**Name, address, and telephone number of
the manufacturer:**

Refer to supplier

Supplier's Telephone # : (914) 699 3400

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).
Contract No.: BEAN

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Most important hazards: Occupational exposure to the substance or mixture may cause adverse effects.

This material is not classified as hazardous under U.S. OSHA regulations (29 CFR 1910.1200) and Canadian WHMIS regulations (Hazardous Products Regulations).

Physical Hazards Not Otherwise Classified (PHNOC) :Not applicable

Health Hazards Not Otherwise Classified (HHNOC) :Not applicable

Label elements

Hazard pictogram(s)

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

Signal Word

Not required

Hazard statement(s)

Not required

Precautionary statement(s)

Not required

Other hazards

Other hazards which do not result in classification: :

Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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SAFETY DATA SHEET**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Starch	Starch	9005-25-8	10
Water-based co-polymer	Not available.	Confidential	80
Benzoate esters	Dipropylene glycol dibenzoate	27138-31-4	10

SECTION 4. FIRST-AID MEASURES**Description of first aid measures**

Ingestion : Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.

Inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTER or doctor/physician.

Skin contact : Immediately flush with plenty of water, while removing contaminated clothing. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

Eye contact : For eye contact, flush with running water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed

Direct skin contact may cause slight or mild, transient irritation. Direct eye contact may cause slight or mild, transient irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES**Extinguishing media***Suitable extinguishing media*

Carbon dioxide (CO₂); Dry chemical; Alcohol resistant foam; Water fog

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

No unusual fire or explosion hazards noted.

Flammability classification (OSHA 29 CFR 1910.106)

Not flammable.

Hazardous combustion products

Carbon oxides

Special protective equipment and precautions for firefighters*Protective equipment for fire-fighters*

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Do not enter

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without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

Special fire-fighting procedures

Do not breathe fumes or vapours. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

Wipe up with absorbent material (e.g. cloth, fleece).

Special spill response procedures

If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (phone: 1-800-424-8802).

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Use only in well-ventilated areas. Avoid breathing mist or vapor. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces. - No smoking.

Conditions for safe storage : Keep container tightly closed. Store in cool/well-ventilated place. Keep from freezing.

Incompatible materials : Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Starch (9005-25-8)	N/Av	N/Av	N/Av	N/Av
Water-based co-polymer	N/Av	N/Av	N/Av	N/Av
Benzoate esters (27138-31-4)	N/Av	N/Av	N/Av	N/Av

Note: Exposure limits established for starch apply to the substance as an airborne particulate (total and respirable dust). This product is supplied as a liquid and is not expected to generate airborne dust under normal conditions of use.

Exposure controls

Ventilation and engineering measures

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Use only in well-ventilated areas.

Respiratory protection : None required under normal conditions.
Skin protection : None required under normal conditions.
Eye / face protection : None required under normal conditions.
Other protective equipment : Other equipment may be required depending on workplace standards.
General hygiene considerations

Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid
Colour : White.
Odour : Not available.
Odour threshold : Not available.
pH : None.
Melting Point/Freezing point : 0°C
Initial boiling point and boiling range : 100 °C
Flash point : Does not Flash
Flashpoint (Method) : Closed cup
Evaporation rate (BuAe = 1) : Not available.
Flammability : Not applicable.
Lower explosion or flammability limit (% by vol.) : Not available.
Upper explosion or flammability limit (% by vol.) : Not available.
Oxidizing properties : None.
Explosive properties : Not explosive
Vapour pressure : Not applicable.
Relative vapour density : Not available.
Relative density / Specific gravity : Not available.
Solubility in water : Insoluble.
Other solubility(ies) : Not available.
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution : Not available.
Auto-ignition temperature : Not available.
Decomposition temperature : Not applicable.
Viscosity : 20000 cps
Particle characteristics : Not applicable.
Volatiles (% by weight) : Not applicable.
Volatile organic Compounds (VOC's) : Not available.
Absolute pressure of container : Not applicable.
Flame projection length : Not applicable.
Other physical/chemical comments : Not applicable

SECTION 10. STABILITY AND REACTIVITY

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Reactivity : Not normally reactive.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions :
Hazardous polymerization does not occur.
Conditions to avoid : Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible substances. Do not use in areas without adequate ventilation. Keep from freezing.
Incompatible materials : Strong oxidizers.
Hazardous decomposition products : Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption : NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation : Mild respiratory irritant
Sign and symptoms ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Sign and symptoms skin : Direct skin contact may cause slight or mild, transient irritation.
Sign and symptoms eyes : Direct eye contact may cause slight or mild, transient irritation.

Potential Chronic Health Effects

Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

Mutagenicity : Not expected to be mutagenic in humans.
Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive effects & Teratogenicity : Not expected to cause reproductive effects.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.
Specific target organ effects : According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012), this product is not expected to cause target organ toxicity through single or repeated exposures.

Medical conditions aggravated by overexposure

Not available.

Synergistic materials : Not available.

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Chemical name	LC50(4hr) inh, rat	LD50	
		(Oral, rat)	(Rabbit, dermal)
Starch	N/Av	N/Av	N/Av
Water-based co-polymer	N/Av	N/Av	N/Av

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Benzoate esters	N/Av	N/Av	N/Av
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Other important toxicological hazards

Not applicable

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Do not allow material to contaminate ground water system. See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS #</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Starch	9005-25-8	N/Av	N/Av	N/Av
Water-based co-polymer	N/Av	N/Av	N/Av	N/Av
Benzoate esters	27138-31-4	N/Av	N/Av	N/Av

<u>Ingredients</u>	<u>CAS #</u>	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Starch	9005-25-8	N/Av	N/Av	N/Av
Water-based co-polymer	N/Av	N/Av	N/Av	N/Av
Benzoate esters	27138-31-4	N/Av	N/Av	N/Av

<u>Ingredients</u>	<u>CAS #</u>	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Starch	9005-25-8	N/Av	N/Av	N/Av
Water-based co-polymer	N/Av	N/Av	N/Av	N/Av
Benzoate esters	27138-31-4	N/Av	N/Av	N/Av

Persistence and degradability

No data is available on the product itself.

Bioaccumulation potential : Not available.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Starch (CAS 9005-25-8)	N/Av	N/Av
Water-based co-polymer (CAS Confidential)	N/Av	N/Av
Benzoate esters (CAS 27138-31-4)	N/Av	N/Av

Mobility in soil : The product itself has not been tested.

Other Adverse Environmental effects

Not applicable

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to

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protective measures listed in sections 7 and 8.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations. Empty containers should be taken to local recyclers for disposal.

RCRA : Not applicable.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
ICAO/IATA	None.	Not regulated.	not regulated	none	Ø
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	Ø
IMDG Additional information	None.				
TDG	None.	Not regulated.	not regulated	none	Ø
TDG Additional information	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	Ø
49CFR/DOT Additional information	None.				

Special precautions for user : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame - No smoking.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302)	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de Minimis Concentration
Starch	9005-25-8	Yes	None.	None.	No	N/Ap
Water-based co-polymer	Confidential	Yes	None.	None.	No	N/Ap
Benzoate esters	27138-31-4	Yes	None.	None.	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None.

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US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Starch	9005-25-8	No	N/Ap	NS	NS	NS	NS	NS	NS
Water-based co-polymer	Confidential	No	N/Ap	NS	NS	NS	NS	NS	NS
Benzoate esters	27138-31-4	No	N/Ap	NS	NS	NS	NS	NS	NS

Canadian Information:

All ingredients are present on the DSL.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Starch	9005-25-8	Not available	Not available	Not available	Not available	Not available	Not available	Not available
Water-based co-polymer	Confidential	Not available	Not available	Not available	Not available	Not available	Not available	Not available
Benzoate esters	27138-31-4	Not available	Not available	Not available	Not available	Not available	Not available	Not available

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
AIHA: American Industrial Hygiene Association
CAS: Chemical Abstract Services
CEPA: Canadian Environmental Protection Act
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
DOT: Department of Transportation
EPA: Environmental Protection Agency
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Dangerous Goods
IOC: Inventory of Chemicals
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NOEC: No observable effect concentration
NTP: National Toxicology Program

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OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average

References : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
2. ECHA - European Chemical Agency
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases
4. Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists
6. California Proposition 65 List
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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Revision

Section 3 composition updated; Sections 8, 11, 12 and 15 revised accordingly.
Supersedes version dated 08/21/2025.

Other special considerations for handling

Provide adequate information, instruction and training for operators.

<u>Prepared for:</u> Beacon Adhesives 125 Macquesten Parkway South Mount Vernon, NY 10550 Telephone: (914) 699 3400 info@beaconadhesives.com	
<u>Prepared by:</u> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) http://www.thecompliancescenter.com	

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