

# 7 Seneca Road, Leamington Ontario, Canada N8H 5P2

Phone: + 1 519 329 BLAK (2525)

World-leading biomaterials technology

# Safety Data Sheet

**REVISION: 02** 

**DATE: September 2019** 



## **Product Identifier**

## **SECTION 1. IDENTIFICATION**

**Product Identifier:** CGTECH-BCR-HMS20/30/40 **Competitive Green Technologies** Company:

**Emergency** +1 519 329 2525 **Telephone Number:** +1 519 588 9395 +1 519 796 9323

+1 519 890 9165

Recommended Use: Injection molding consumer products

Home Page: http://www.competitivegreentechnologies.com

## **SECTION 2. HAZARD IDENTIFICATION**

Most important Not classified as hazardous

hazards:

**Product effects** 

Adverse effects to the In case of dust, Competitive Green Technologies suggests it to be treated as human health: annoying dust or particulate, by international recommendations. Dust may cause

respiratory irritation if inhaled.

Not classified as hazardous **Environmental** 

effects:

Physical and Not classified as physical hazards

Chemical hazards

Classification of the Not classified as hazardous

substance or mixture:

Label elements according to regulation 1272:2008

(GHS)

Symbol: Not Applicable Signal Word: Not Applicable **Hazard Statement:** Not Applicable Precaution Not Applicable Statement: Not Applicable



# 7 Seneca Road, Leamington Ontario, Canada N8H 5P2

Phone: + 1 519 329 BLAK (2525)

World-leading biomaterials technology



Precaution Statement:

Label elements according to

Directive 67/548/EEC Not applicable

Not classified Not applicable

Symbol:

Risk Phrases: Safety Phrases

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Concentration	Ingredients or impurities that contribute to the hazard
Ag Fiber	N/A	Up to 25%	Doesn't have ingredients or impurities that
Polypropylene	9003-07-0		contribute to the hazard classification
		Up to 75%	
Proprietary Stabilizers	Trade Secrets	Up to 15%	

## **SECTION 4. FIRST-AID MEASURES**

**Inhalation:** No risks concerning inhalation at room temperature. In case of inhalation of dusts or

vapors at high temperatures, remove victim to fresh air and keep in rest. Seek

medical attention. Take this SDS.

**Skin Contact:** No health risks concerning skin contact at room temperature. In case of contact with

the hot product and if irritation happens, wash with plenty of water. Remove clothing

impregnated with the product. Seek medical attention. Take this SDS.

Eye Contact: Wash with running water for at least 15 minutes, keeping the eyelids open. Remove

contact lenses if in use. Seek medical attention. Take this SDS.

Ingestion: Rinse the victim's mouth with plenty of water. DO NOT INDUCE VOMITING. Seek

medical attention. Take this SDS

Most Important Symptoms and Effects, Acute and

In case of dust formation and inhalation, may cause coughing and sneezing.

Delayed:



# 7 Seneca Road, Leamington Ontario, Canada N8H 5P2

Phone: + 1 519 329 BLAK (2525)

World-leading biomaterials technology



**Immediate Medical** Attention and Special Treatment:

Avoid contact with this product while helping the victim. Keep the victim in rest and warm. Do not provide anything to an unconscious person. The symptomatic treatment should include, above all, measured of support as correction of hydro electrolytic and metabolic disturbances and respiratory care.

## SECTION 5. FIRE-FIGHTING MEASURES

Fire Extinguishing

Media:

Special hazards arising from the

substance or mixture:

Advice for firefighters: CO2, dry chemical, foam or water fog

When in a fire, may produce irritating and toxic gases like carbon monoxide and

dioxide

Cool closed containers with pulverized water. Firefight at safe distance. Evacuate the

safe area.

Use self-contained breathing apparatus (SCBA) operated in positive pressure mode

and complete protective clothing.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions, **Protective** 

Equipment, and **Emergency** Procedures

Control of dust:

Not applicable. The product doesn't generate dust.

Removal of ignition

Product isn't flammable. Eliminate preventatively all the ignition sources around the

sources: Provision of sufficient

area. Do not smoke in the area. Use in a well-ventilated area.

ventilation:

Prevention of

inhalation and skin. mucous membranes and eve contact: Environmental

Avoid contact with eyes. Use appropriate personal protective equipment.

Do not let this chemical enter the environment (soil, waterways and groundwater).

precautions: Do not dispose directly on the environment or the sewer.

Methods and material Use a method that does not generate dust. Collect the material in proper container



# 7 Seneca Road, Leamington Ontario, Canada N8H 5P2

Phone: + 1 519 329 BLAK (2525)

World-leading biomaterials technology



for containment and

cleaning up:

and remove them to safe place.

## **SECTION 7. HANDLING AND STORAGE**

Precautions for Safe

Handling:

Handle in a well-ventilated area or with a general system of local

ventilation/exhaustion. Avoid contact with eyes and clothing. Remove ignition sources

and heat. Do not smoke. Use exposure control measures and personal protective

equipment.

**Conditions for Safe** 

Storage:

Keep the product in its original packaging and in a cool, dry, safe from direct sunlight and fireproof place. Keep the container tightly sealed and closed. Keep away from

food. Keep away from children.

Incompatibilities: fluorine, strong acids, strong oxidizers, chlorated solvents and

aromatic compounds.

Hygiene advice:

Do not eat, drink, or smoke when using this product. Wash hands before.

**Packaging Materials:** 

The resin should be packaged in aluminum bags to prevent moisture absorption and

degradation.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Appropriate** 

Engineering Controls: Provide mechanical ventilation or direct exhaustion to the external media. It is

recommended safety shower and eye bath available near work site. The engineering

controls measures are the most effective to reduce exposure to the product.

**Individual Protection** 

Measures

**Eye/Face** Safety goggles with lateral protection. Avoid using contact lenses while handling this

**Protection:** product.

Skin and Hand

Suitable protective suit.

protection:

Respiratory

Does not require specific respiratory equipment.

protection:

Thermal hazard: Complete air-ventilated suit, with air supply, or any thermo-resistant clothing

**Environmental** available.

**exposure controls:** Do not discharge directly in to the environment or in to the sewer system. The



# 7 Seneca Road, Leamington Ontario, Canada N8H 5P2

Phone: + 1 519 329 BLAK (2525)

World-leading biomaterials technology

dilution water from firefighting can cause pollution.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Black, Round or oval in shape

Odour: No Odour Odour Threshold: Not applicable.

pH: Not applicable. **Melting Point and** Not applicable.

Freezing Point:

**Initial Boiling Point** Not applicable.

and Boiling Range:

Flash Point: Not applicable. **Evaporation Rate:** Not applicable. Flammability (solid, Not applicable.

**Upper and Lower** Not applicable.

Flammability or **Explosive Limit:** 

Vapour Pressure: Not applicable. **Vapour Density** Not applicable.

(air = 1):

**Relative Density** 1.005 g/cm<sup>3</sup>

(water = 1):

Solubility: Insoluble in water. Soluble in xylene. Not available.

Partition Coefficient,

n-Octanol / Water:

**Auto-ignition** >350°C

Temperature:

**Decomposition** >300°C

Temperature:

Viscosity Not available. **Explosive properties:** Not available. Oxidizing properties: Not available.

Other information: Maximum time of storage is 24 months after production.

## **SECTION 10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable under normal conditions of handling and storage. Does not undergo

depolymerization.

# 7 Seneca Road, Leamington Ontario, Canada N8H 5P2

Phone: + 1 519 329 BLAK (2525)

World-leading biomaterials technology



Possibility of Reacts to violently with fluorine.

**Hazardous Reactions:** 

Conditions to Avoid: High temperatures. Incompatible materials.

Incompatible

Fluorine, strong acids, strong oxidizers, chlorated solvents and aromatic compounds.

Materials:

**Hazardous** Monoxide and carbon dioxide and other irritant chemical substances

**Decomposition Products:** 

## SECTION 11. TOXICOLOGICAL INFORMATION

## **Likely Routes of Exposure**

**Acute Toxicity** 

LD50 (oral): Non-toxic product.

Skin Corrosion /

Not irritating.

Irritation:

Serious Eye Damage /

Not irritating.

Irritation:

STOT (Specific Target

At powder or dust form, may cause respiratory irritation with coughing and sneezing.

Organ Toxicity) -Single Exposure:

There are not any known aspiration effects.

**Aspiration Hazard** STOT (Specific Target

There are not any known repeated exposure effects.

Organ Toxicity) -Repeated Exposure:

Respiratory and/or

Epidemiological studies showed a very low skin sensitization potential.

Skin Sensitization:

Carcinogenicity: There are not any known carcinogenicity toxicity effects.

**Germ Cell** Mutagenicity: There are not any known germ cell mutagenicity effects.

Reproductive

There are not any known reproductive toxicity effects.

**Toxicity:** 

# CARLEN TECHNOLOGIC

## COMPETITIVE GREEN TECHNOLOGIES

# 7 Seneca Road,

# Leamington Ontario, Canada

N8H 5P2

Phone: + 1 519 329 BLAK (2525)

World-leading biomaterials technology



## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity:** There are not any known ecological toxicity values. Wildlife, especially small fish

may digest pellets. Pellets are not toxic, but may block the digestive tract and cause

starvation or death.

Persistence and

High persistence is expected. Meets degradability of ASTM D-6400 Standard.

Degradability:

Bioaccumulative It is expected moderate to high bio-accumulative potential

Potential:

Mobility in Soil: Not available. Results of PBT and Not available.

vPvB assessment:

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal Methods:** Should be disposed as hazardous waste according to local legislations. The treatment

and disposal should be evaluated specifically to federal and state/provincial laws.

## **SECTION 14. TRANSPORT INFORMATION**

Land (Road/Rail): UN – "United Nations"

Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model

Regulations

Waterways IMO – International Maritime Organization

(Sea/Inland): International Maritime Dangerous Goods Code (IMDG Code)

Air: IATA – International Air Transport Association

Dangerous Goods Regulation (DGR)

Environmental

Hazards:

Not Hazardous.

Transport in Bulk Consult regulations:

According to Annex II of MARPOL 73/78 and

of MARPOL 73/78 and the IBC Code:

- International Maritime Organization. MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated

edition. IMO, London, 2007.



# 7 Seneca Road, Leamington Ontario, Canada N8H 5P2

Phone: + 1 519 329 BLAK (2525)

World-leading biomaterials technology



- International Maritime Organization. IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk; With Standards and guidelines relevant to the code. IMO, London, 2007.

## **SECTION 15. REGULATORY INFORMATION**

Safety, Health and Environmental Regulations Labour Organization C170 Chemicals Convention, from June 25<sup>th</sup>, 1990:
Occupational Safety and Health – Toxic Substances and Agents.

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the council on the registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

REACH – EGISTRATION, EVALUATION, AUTHORIZATION, AND RESTRICTION OF CHEMICALS. Commission Regulation (EC) No 1272/2008 of 16 December 2008, amending and repealing Directives 67/548/EEC and 1999/45/EC.

ECB – EUROPEAN CHEMICALS BUREAU. Directive 67/548/EEC (substances); Directive 1999/45/EC (preparations).

UN Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model Regulations, 17<sup>th</sup> Edition, 2011.

TSCA – TOXIC SUBSTANCES CONTROL ACT of 1976. All components of this product are listed or exempted from the United States Environmental Protection Agency Toxic Substances Control Act inventory.

SARA 302/304 – No products were found.

SARA 311/312 - Fire Hazard

SARA 313 – This product contains no exceedance of chemical concentration that are subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CALIFORNIA PROPOSITION 65 – This product complies with California Proposition 65.



# 7 Seneca Road, Leamington Ontario, Canada N8H 5P2

Phone: + 1 519 329 BLAK (2525)

World-leading biomaterials technology



CANADA – All components of this product are listed or exempted from DSL (Domestic Substances List).

EUROPE – Not known to contain substances of very high concern (SVHC). ROHS compliant

Restrictions: No Restrictions were found.

## **SECTION 16. OTHER INFORMATION**

Competitive Green Technologies warns that the handling of any chemical substance requires the previous knowledge of its hazards for the user. It is the responsibility of the user enterprise to promote the training of its employees and contractors about the possible risks arising from the product.

## Food Contact Declaration:

Generally Recognized as Safe (GRAS) - substance is GRAS under the conditions of its intended use.